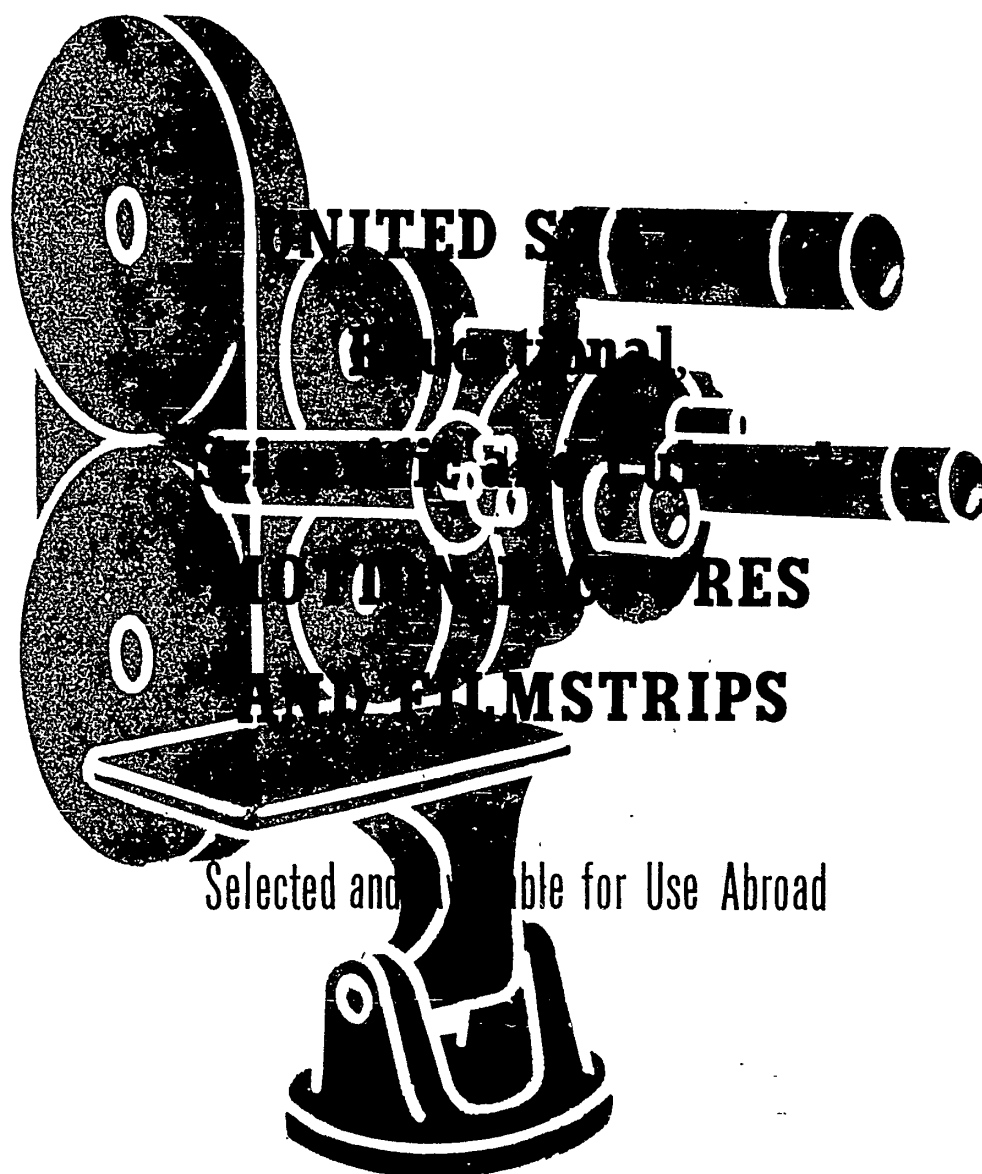


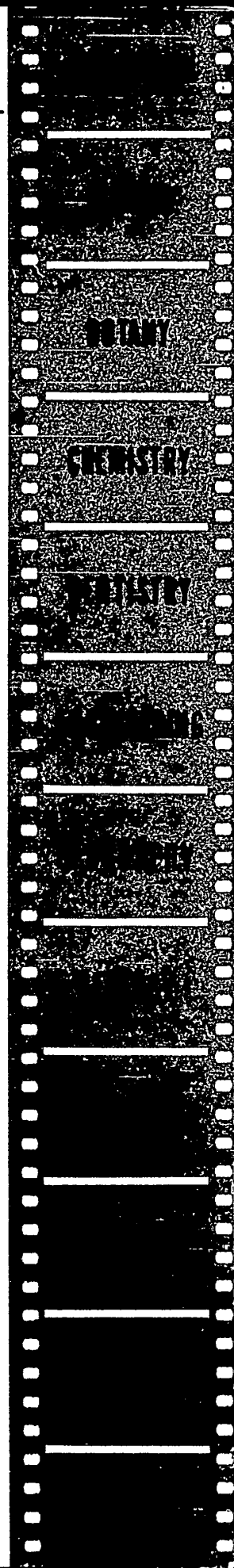
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SCIENCE SECTION : 1956



UNITED STATES INFORMATION AGENCY



ACTDMMMV

GUIDE TO
LANGUAGE VERSIONS

UNITED STATES
Educational
Scientific and Cultural
MOTION PICTURES
AND
FILMSTRIPS

SCIENCE SECTION, 1956

UNITED STATES INFORMATION AGENCY

Inquiries should not be directed to the United States Information Agency but to the producers and distributors listed as sources on pages 337 - 369. There is no central source from which all films may be obtained.

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DUTC	
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623	1715	335
653	1721	1907
685	1745	
688	1777	<u>INDONESIAN</u>
689	1796	320
734	1801	335
763	1832	
770	1886	<u>JAPANESE</u>
772	1907	
794	2026	587
801	2034	968
809	2051	1280
810	2114	1801
818	2159	
821	2183	<u>NORWEGIAN</u>
872	2191	
885	2210	255
913	2263	320
922	2265	335
926		608
927	<u>GERMAN</u>	688
930		1274
931	142	1832
977	320	2265
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1044	1130	<u>PERSIAN</u>
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499	1777	614
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536	1832	623
554	1898	633
584	1907	636
587	2026	640
606	2034	688
608	2064	714
614	2114	723
618	2126	734
623	2158	763
633	2159	801
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Most of the documentary and informational films used in the overseas information program conducted by the United States Information Agency are available abroad in the local language or languages. To borrow these films, or for information regarding language prints of a specific title, application should be made directly to the nearest office of the United States Information Service. The address of the nearest Information Service may be obtained from any American Embassy or Consulate.

Although not all titles are available in all languages, language prints may be borrowed from the local United States Information Service office serving countries where the following languages are in common use:

Amoy	Danish	Greek	Korean	Sinhalese	Thai
Arabic	Dutch	Gujerati	Mandarin	Slovene	Tonkinese
Bengali	English	Hebrew	Marathi	Spanish	Turkish
Burmese	Finnish	Hindi	Norwegian	Swedish	Urdu
Cantonese	Flemish	Indonesian	Persian	Tagalog	
Cebuano	French	Italian	Portuguese	Tamil	
Cochinchinese	German	Japanese	Serbo-Croat	Telugu	

SCIENCE SECTION : 1956

UNITED STATES
Educational,
Scientific and Cultural
MOTION PICTURES
AND FILMSTRIPS

Selected and Available for Use Abroad

UNITED STATES INFORMATION AGENCY

ASTRONOMY

BIOLOGY

BOTANY

CHEMISTRY

DENTISTRY

ENGINEERING

GEOGRAPHY

GEOLOGY

MATHEMATICS

MEDICINE

PHYSICS

ZOOLOGY



UNITED STATES INFORMATION AGENCY
WASHINGTON

December 19, 1956

FOREWORD

This Science Section, 1956, of the catalog United States Educational Scientific and Cultural Motion Pictures and Filmstrips Selected and Available for Use Abroad is a timely reminder of the contributions of science and the visual information medium in bringing illumination and understanding to the minds of men.

Especially during the forthcoming International Geophysical Year, scientists and educators the world over will be conscious of those achievements of science which contribute to the well-being and advancement of mankind, and which increase international cooperation and understanding. It is hoped that this sampling of motion pictures and filmstrips available for use abroad from sources within the United States will be of service to both scientists and educators.

The purpose of the catalog, of which this present issue is a part, is to keep informed those individuals and institutions abroad, responsible for developing visual information programs in their own countries, of the wide variety of motion pictures and filmstrips available from American sources for information and instruction in specified fields of activity.

The United States Information Agency again acknowledges with deep appreciation the continued professional guidance of the visual education specialists who serve without compensation as advisors in this work. The Agency acknowledges its indebtedness to the producers who make their materials available for use abroad, and to officers of private and governmental agencies who cooperate in this project. Without their assistance this catalog could not be compiled.

It is hoped that this publication continues to be a helpful source of information to those abroad who wish to make use of American motion pictures and filmstrips for educational, scientific and cultural purposes.

Arthur Larson

Arthur Larson
Director



UNITED STATES INFORMATION AGENCY
WASHINGTON

December 3, 1956

Dear Mr. Larson:

The accompanying report is the most recent installment in a continuing work which seeks to identify motion pictures and filmstrips on educational, scientific and cultural subjects available from American sources and considered by American specialists in visual media to be appropriate for inclusion in the catalog United States Educational, Scientific and Cultural Motion Pictures and Filmstrips Selected and Available for Use Abroad.

This 1956 Science Section is submitted as a separate section while work goes forward on the balance of a new edition of the catalog. It was considered advisable to issue this separate section on scientific subjects, including the popularization of science, and materials for science teaching at all levels, in the interests of more effective utilization. The advent of the International Geophysical Year, emphasizing as it does the importance of international scientific cooperation, is a reminder that the kinds of motion pictures and filmstrips described herein may find especially opportune use abroad in connection with related scientific and educational programs and activities during that period.

It should be noted, however, that the listing by no means includes all the titles of science motion pictures and filmstrips available from American sources. As the report goes to press, many additional titles are ready for consideration by advisors, and many entries are already prepared for inclusion in an early supplement.

The present publication differs in certain aspects from the 1952 Edition and the 1954 Supplement (with which it may properly be used) beyond selectivity of subject matter. In order to benefit as much as possible from the recommendations of the Conference on International Standards for Motion Picture and Filmstrip Cataloging (Library of Congress, May, 1953) the descriptive section of this report consists predominantly of photographic reproductions of Library of Congress cards issued as part of the Library's cooperative cataloging program. These cards, resulting from data submitted by producers from all parts of the country, are compatible with rules recommended by that Conference. Further, the descriptive section is organized by subject, for convenience of reference, and for reproduction of separate subject lists, if desired. The new title index contains category, availability and source information. Efforts are constantly being made to improve the format, and suggestions in this regard are much appreciated.

The Honorable
Arthur Larson,
Director,
United States Information Agency

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The task of publishing the catalog was originally undertaken in 1948 by the Department of State, and the work proceeded under the very able direction of Miss J. A. Wright, the original Chairman of the Subcommittee on Catalog. This catalog project has involved the cooperation of specialists in visual education, producers of motion pictures and filmstrips, organizations having special competence in the fields within the scope of catalog, and interested Government Agencies, as was foreseen by Dr. Edgar Dale, Chairman of the Board of Advisors.

The continuing cooperation of the Board of Advisors to this work, under the leadership of Dr. Dale, the advice and assistance of specialists in subject matter covered by the catalog, and the cooperation of producers, sponsors and distributors of films, make this publication possible.

Their efforts are rewarded by the knowledge that institutions and individuals abroad having an interest in educational, scientific and cultural motion pictures and filmstrips may be assisted in obtaining them by reference to this work.

Thus far, the project has resulted in the listing of over six thousand films and filmstrips in the 1952 Edition and the 1954 Supplement, and a tentative identification of more than ten thousand entries eligible for inclusion in the cumulative new edition, from over five hundred sources from within the United States. This present section includes 2,622 entries (consisting of 3,488 titles), from 266 sources.

In compiling this catalog American scholars, professional men, business men and government agencies have cooperated in an effort to make American ideals, methods and achievements better known abroad through the film medium.

Respectfully submitted,

Wilbert H. Pearson
Wilbert H. Pearson
Chairman, Subcommittee on Catalog

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ACKNOWLEDGMENT

The Board of Advisors desires to express gratitude to the following persons who were good enough to assist in the selection (for listing in this catalog) of materials on a professional level dealing with preventive and curative medicine and surgery, mental health, etc.

Responsibility for the inclusion of such materials rests, however, with the chairman of the Subcommittee on Catalog.

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Chicago 11, Illinois

STRUCTURE OF CATALOG

- I. ASTRONOMY
- II. BIOLOGY
- III. BOTANY
- IV. CHEMISTRY
- V. DENTISTRY
- VI. ENGINEERING
- VII. GEOGRAPHY
 - Maps
 - Navigation
- VIII. GEOLOGY
 - Metallurgy
 - Mining
 - Paleontology
- IX. MATHEMATICS
 - Algebra
 - Arithmetic
 - Calculus
 - Geometry
 - Graphs
 - Measurement
- X. MEDICINE
 - A. Preventive and Curative Medicine and Surgery
 - Anatomy; Physiology
 - Anesthesiology
 - Atomic Medicine
 - Bacteriology
 - Communicable Diseases
 - Dermatology
 - Endocrinology
 - Geriatrics
 - Gynecology; Child Care; Obstetrics; Pediatrics
 - Hematology
 - Immunology
 - Industrial Medicine
 - Internal Medicine
 - Neurology
 - Nursing; Hospitals and Laboratories Procedures
 - Ophthalmology
 - Otorhinolaryngology
 - Pathology; Autopsy
 - Preventive Medicine
 - Public Health
 - Surgery and Radiology
 - Tropical Medicine; Parasitology
 - Veterinary Medicine

STRUCTURE OF CATALOG

- B. Hygiene
- C. Sanitation
- D. Mental Health
 - Psychiatry
 - Psychology
- E. First Aid
- F. Physical Exercises; Physical Medicine; Rehabilitation
- XI. PHYSICS
 - Electricity
 - Meteorology
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- XII. ZOOLOGY
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NOTE ON MOTION PICTURES

The following alphabetical listing of motion pictures described in this catalog is also a guide to descriptive, availability, and source information for each entry. Entries are numbered for convenience of reference.

Descriptive data for each title may be found under DESCRIPTIONS OF MOTION PICTURES, pages 59 to 242, by searching within the assigned category.

SOURCES from which the motion pictures may be obtained are indicated by code letters, which correspond to similar codes in the SOURCES section of the catalog, pages 337 to 369.

Terms and special conditions of availability are indicated by symbols.

Motion pictures listed are usually available for purchase only, unless otherwise stated; special conditions of availability are indicated as follows:

Rental - * Related Strip - /
Loan - ** Language Version - //
Magnetic Striping - MS
Television - TV

Since in many cases important details of availability are explained in the SOURCES section, persons interested should study that section carefully.

It should be emphasized that correspondence regarding motion pictures listed should be directed to the appropriate organization or individual listed in the SOURCES section, and not to the U. S. Information Agency.

INDEX OF MOTION PICTURES

(Listed alphabetically by title, with category, source, and availability information)

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- A -			
1. A IS FOR ATOM (PHYSICS - Nuclear)	GE **	17. THE ACTION OF STAPHYLOCOCCAL TOXIN ON RABBITS AND MICE (MEDICINE - Bacteriology)	SAB *
2. THE ABC OF INTERNAL COMBUSTION (PHYSICS)	GenM **	18. ACTIVITY FOR SCHIZOPHRENIA (MEDICINE - Psychiatry)	VETS-UWF **
3. THE ABC OF THE AUTOMOBILE ENGINE (PHYSICS)	GenM **	19. ACTIVITY GROUP THERAPY (MEDICINE - Psychiatry)	COLUM
4. ABC OF THE DIESEL ENGINE (PHYSICS)	GenM **	20. ADDING AND SUBTRACTING (MATHEMATICS - Arithmetic)	JHUNT TV
5. ABDOMINAL COLOSTOMY CLOSURE (PAUCHET METHOD) (PMF-5002) (MEDICINE - Surgery)	USArmy-P **	21. ADMINISTRATION OF PROJECTIVE TESTS (MEDICINE - Psychology)	PSU-PCR
6. ABDOMINAL COMPLETE HYSTER- ECTOMY WITH RIGHT SALPINGO- OPHORECTOMY (MEDICINE - Surgery)	DG **	22. THE ADVENT OF ANESTHESIA (MEDICINE - Anesthesiology)	Wallin't *
7. ABDOMINO-PERINEAL RESECTION FOR CARCINOMA OF THE RECTUM (MEDICINE - Surgery)	DG **	23. ADVENTURE IN MATURITY (MEDICINE - Psychology)	UoFokla- IntFB
8. ABDOMINO-PERINEAL RESECTION OF THE RECTUM (MEDICINE - Surgery)	DG **	24. AEDES AEGYPTI CONTROL (MEDICINE - Sanitation)	CDC **
9. ABNORMAL INVOLUNTARY MOVEMENTS (MEDICINE - Neurology)	COLUM	25. AERODYNAMICS: AIR FLOW (PHYSICS)	USAF-UWF
10. ABORTIVE BEHAVIOR AS AN ALTERNATIVE FOR THE NEUROTIC ATTACK IN THE RAT (MEDICINE - Psychology)	PSU-PCR	26. AERODYNAMICS: FORCES ACTING ON AN AIR FOIL (PHYSICS)	USAF-UWF
11. ABOUT FACES (DENTISTRY)	USPHS **	27. AFRICAN TRYPANOSOMIASIS (MH-6839) (MEDICINE - Tropical)	USNavy-UWF
12. ACCENT ON USE (MEDICINE - Physical)	NFIP **	28. AGE OF TURMOIL (MEDICINE - Psychology)	McG-H /
13. ACCORDING TO PLAN (ENGINEERING)	McG-H /	29. AGGLUTINATION OF LIVE TYPHOID BACILLI BY VI SERUM (MEDICINE - Bacteriology)	SAB *
14. ACQUISITION OF THE TOKEN- REWARD HABIT IN THE CAT (MEDICINE - Psychology)	PSU-PCR	30. AIR ALL ABOUT US (PHYSICS)	CORONET * MS TV
15. ACRYLIC JACKET CROWN CON- STRUCTION (MH-5371) (DENTISTRY)	USNavy-UWF **	31. AIR ALL AROUND US (PHYSICS)	YAF /
16. ACTION OF BACTERIOPHAGE ON TYPHOID BACILLI (MEDICINE - Bacteriology)	SAB *	32. AIR AROUND US (PHYSICS)	EBF * MS
		33. AIR IN ACTION (PHYSICS)	CORONET *
		34. THE AIRBORNE MAGNETOMETER (PHYSICS)	COM-CA
		35. AIRPLANE HYDRAULIC BRAKES: PRINCIPLES OF OPERATION (ENGINEERING)	USAF-UWF

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
36. AIRPLANE HYDRAULIC BRAKES: TYPES, CONSTRUCTION, AND ACTION (ENGINEERING)	USAF-UWF	56. AMPUTATION PROSTHESES AND THEIR USE. PART 2: LOWER EXTREMITY (PMF-5025) (MEDICINE - Surgery)	USArmy-P	78. ANIMALS IN SUMMER (ZOOLOGY)	EBF * MS	99. AORTIC-PULMONARY ANASTOMOSIS FOR PULMONARY STENOSIS (MEDICINE - Surgery)	LaRue
37. AIRPLANE PROPELLERS: HAMILTON HYDROMATIC, THEORY AND OPERATION (ENGINEERING)	USAF-UWF	57. AMPUTATIONS FOR OCCLUSIVE ARTERIAL DISEASE, WITH REFRIGERATION ANESTHESIA AND IMMEDIATE AMBULATION (MEDICINE - Surgery)	DG **	79. ANIMALS IN WINTER (ZOOLOGY)	EBF *	100. APHIDS (PLANT LICE) (BIOLOGY)	EBF *
38. AIRPLANES AND HOW THEY FLY (PHYSICS)	YAF	58. ANATOMY OF THE EAR (MEDICINE - Otorhinolaryngology)	DOHO	80. ANNELIDA (REEL I, II, III) (BIOLOGY)	10-R	101. APPENDECTOMY (MEDICINE - Surgery)	DG **
39. ALCOHOL AND THE HUMAN BODY (BIOLOGY)	EBF * //	59. THE ANCIENT CURSE (MEDICINE - Communicable Disease)	USIA **	81. ANOMALIES IN THE DEVELOPMENT OF THE GASTROINTESTINAL TRACT (MEDICINE - Surgery)	COLUM	102. APPLICATION OF THICK SPLIT SKIN GRAFTS (MEDICINE - Surgery)	DG **
40. ALCOHOL AS A PREVENTATIVE OF EXPERIMENTAL NEUROSES (MEDICINE - Psychology)	PSU-PCR	60. AND THEN ICE CREAM (MEDICINE - Psychology)	Yassar	82. ANOMALIES OF THE BILE DUCTS- BLOOD VESSELS AND STRICTURES OF THE COMMON DUCT (MEDICINE - Surgery)	ETHICON	103. APPLIED GEOMETRY (MATHEMATICS - Geometry)	PURDUE *
41. ALIGHTING GEAR (ENGINEERING)	USAF-UWF	61. ANDY'S ANIMAL ALPHABET (ZOOLOGY)	MTFF *	83. ANOPHELES CENSUS: A BASIC FIELD PROCEDURE IN SETTING UP MALARIA CONTROL PROJECTS (MEDICINE - Sanitation)	CDC **	104. AN APPROACH TO UNDERSTANDING DYNAMICS (MEDICINE - Psychiatry)	VETS-UWF
42. ALIMENTARY TRACT (BIOLOGY)	EBF * //	62. THE ANEMIAS (MEDICINE - Hematology)	ACC-Leder	84. ANORECTAL DIVULSION VERSUS PECTENOTOMY (MEDICINE - Surgery)	Spiesman	105. AQUARIUM WONDERLAND (ZOOLOGY)	Dowling
43. ALIVE FROM THE DEEP (ZOOLOGY)	STER	63. ANGLES (MATHEMATICS - Geometry)	KB //	85. ANOTHER LIGHT (MEDICINE - Hospitals)	USPHS **	106. ARCHIMEDES' PRINCIPLE (PHYSICS)	EBF *
44. ALL MY BABIES, A MIDWIFE'S OWN STORY (MEDICINE - Obstetrics)	COLUM	64. ANGLES & ARCS IN CIRCLES (MATHEMATICS - Geometry)	KB //	86. ANOTHER TO CONQUER (MEDICINE - Preventive)	NatDA	107. ARCTIC BORDERLANDS IN WINTER (BIOLOGY)	CORONET * MS TV
45. ALLERGIES (MEDICINE - Lab. Procedures)	EBF *	65. ANGRY BOY (MEDICINE - Psychiatry)	MHFB	87. ANSWERING THE CHILD'S WHY (MEDICINE - Psychology)	EBF *	108. AREAS (MATHEMATICS - Geometry)	KB //
46. ALLERGY (MEDICINE - Dermatology)	BR **	66. ANIMAL BREEDING (MEDICINE - Veterinary)	EBF * MS	88. ANT CITY (ZOOLOGY)	Almanac	109. ARITHMETIC FOR BEGINNERS (MATHEMATICS - Arithmetic)	Ballley
47. ALLERGY - IMMUNOLOGY AND TREATMENT (MEDICINE - Immunology)	Nepera **	67. ANIMAL FRIENDS (ZOOLOGY)	Faotc	89. ANTENNA INSTALLATION (ENGINEERING)	McG-H /	110. ARTERIAL BLOOD PRESSURE (MEDICINE - Hematology)	MFGuild *
48. ALVEOLECTOMY AFTER MULTIPLE EXTRACTION OF TEETH (DENTISTRY)	USArmy-P	68. ANIMAL HABITATS (ZOOLOGY)	Faotc	90. ANTERIOR ARM AND FOREARM ANASTOMOSIS (MEDICINE - Anatomy)	BURKE	111. ARTERIAL DISORDERS IN THE UPPER EXTREMITY AND THEIR TREATMENT BY SYMPATRECTOMY (PMF-5103) (MEDICINE - Surgery)	USArmy-P
49. ALVEOLECTOMY AND MULTIPLE PATHOLOGY (PMF-5219) (DENTISTRY)	USArmy-P	69. ANIMAL HOMES (ZOOLOGY)	CHU-WEX	91. ANTERIOR DISLOCATIONS OF THE SHOULDER (MEDICINE - Surgery)	DG **	112. ARTERIES OF LIFE (GEOGRAPHY)	EBF *
50. ALVEOLECTOMY IN EXTRACTION OF ISOLATED TEETH (PMF-5219) (DENTISTRY)	USArmy-P	70. ANIMAL HOMES (ZOOLOGY)	EBF * MS	92. ANTERIOR RESECTION OF RECTO-SIGMOID WITH PRIMARY ANASTOMOSIS (MEDICINE - Surgery)	DG **	113. ARTERIOVENOUS FISTULA: POSTERIOR TIBIAL VESSELS (MEDICINE - Surgery)	USArmy-P
51. THE AMERICAN HORSE (ZOOLOGY)	Uotc	71. ANIMAL LIFE (ZOOLOGY)	EBF * //	93. ANTERIOR RESECTION OF THE RECTUM (MEDICINE - Surgery)	DG **	114. ARTERIOVENOUS FISTULA WITH FALSE SAC: LOWER FEMORAL VESSELS - QUADRUPLE LIGATION AND EXCISION (PMF-5093) (MEDICINE - Surgery)	USArmy-P
52. AMOEBA (BIOLOGY)	Edited	72. ANIMAL LIFE AT LOW TIDE (ZOOLOGY)	Dowling	94. ANTERIOR WRIST AND HAND (MEDICINE - Anatomy)	BURKE *	115. ARTHROPODA (ZOOLOGY)	10-R
53. AMOEBA AND VORTICELLA (BIOLOGY)	Edited	73. ANIMAL LIFE IN THE ANTARCTIC (ZOOLOGY)	10-R	95. ANTIBIOTICS (CHEMISTRY)	EBF *	116. ARTHROPOD-BORNE VIRUS ENCEPHALITIDES (PMF-5048) (MEDICINE - Tropical)	USArmy-P
54. AMPUTATION OF LOWER EXTREMITY (PMF-5010) (MEDICINE - Surgery)	USArmy-P	74. ANIMALS AND THEIR FOODS (ZOOLOGY)	CORONET * MS TV	96. ANTIBIOTICS AND TERRAMYCIN (CHEMISTRY)	Pfizer **	117. ARTIFICIAL RESPIRATION, THE BACK-PRESSURE ARM-LIFT METHOD (MH-7484) (MEDICINE - First Aid)	USNAVY-UWF
55. AMPUTATION PROSTHESES AND THEIR USE. PART 1: UPPER EXTREMITY (PMF-5024) (MEDICINE - Surgery)	USArmy-P	75. ANIMALS AND THEIR HOMES (ZOOLOGY)	CORONET * MS TV	97. ANTS (ZOOLOGY)	EBF * //	118. ARTERIOLECTOMY: OPEN APPROACH FOR BILATERAL ABDUCTOR PARALYSIS (MEDICINE - Surgery)	Sturg
		76. ANIMALS GROWING UP (ZOOLOGY)	EBF *	98. ANXIETY: ITS PHENOMENOLOGY IN THE FIRST YEAR OF LIFE (MEDICINE - Psychology)	SPITZ		
		77. ANIMALS IN SPRING (ZOOLOGY)	EBF * MS				

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
119. AS THE CROW FLIES (ENGINEERING)	GAR-D **	140. ATOMIC BIOLOGY FOR MEDICINE (BIOLOGY)	Handel TV	163. AUXILIARY VIEWS: SINGLE AUXILIARIES (ENGINEERING)	McG-H /	(MEDICINE - Nursing)	
120. ASCARIASIS (INFESTATION WITH ASCARIDS) (PMF-5124) (MEDICINE - Veterinary)	USArmy-P **	141. THE ATOMIC DETECTIVE (PHYSICS - Nuclear)	Handel TV	- 8 -		183. BATHING TIME FOR BABY (MEDICINE - Child Care)	J&J
121. ASEXUAL REPRODUCTION (BIOLOGY)	INO	142. ATOMIC ENERGY (PHYSICS - Nuclear)	EBF * //	164. BABIES, BATHS AND BUBBLES (MEDICINE - Child Care)	NYH	184. BATHING YOUR BABY (MEDICINE - Child Care)	HPCorp
122. ASIATIC SCHISTOSOMIASIS (MH-5028) (MEDICINE - Communicable Diseases)	USNavy-UWF *	143. ATOMIC FURNACES (PHYSICS - Nuclear)	Handel TV	165. BABY ANIMALS (ZOOLOGY)	YAF	185. BATTLE FOR SURVIVAL (ZOOLOGY)	A&A
123. ASPHALT BANK PROTECTION ON THE MISSISSIPPI RIVER (ENGINEERING)	USA-Eng **	144. ATOMIC GOLDMINE (GEOLOGY - Mining)	Handel TV	166. BABY MEETS HIS PARENTS (MEDICINE - Psychology)	EBF *	186. BATTLE OF THE CENTURIES (ZOOLOGY)	TFC *
124. ASPHALT PLANT OPERATION (ENGINEERING)	USA-Eng **	145. ATOMIC METALLURGY (GEOLOGY - Metallurgy)	Handel TV	167. THE BABY'S BATH (MEDICINE - Child Care)	EBF *	187. BE CLEAN & HEALTHY (MEDICINE - Hygiene)	LibFilms-WH
125. ASPIRATION OF THE ANTERIOR CHAMBER IN SUBCONJUNCTIVITIS APPROACH (MEDICINE - Ophthalmology)	OPHTH-F **	146. THE ATOMIC PHARMACY (MEDICINE - Atomic)	Handel TV	168. BABY'S DAY AT FORTY-EIGHT WEEKS (MEDICINE - Child Care)	EBF *	188. BE YOUR AGE (MEDICINE - Rehabilitation)	NETL
126. AT OUR HOUSE (MEDICINE - Preventive)	COLUM	147. ATOMIC POWER (PHYSICS - Nuclear)	MTFF *	169. A BABY'S DAY AT TWELVE WEEKS (MEDICINE - Child Care)	EBF *	189. BEACH AND SEA ANIMALS (ZOOLOGY)	EBF *
127. ATMOSPHERE AND ITS CIRCULATION (PHYSICS)	EBF * / //	148. ATOMIC POWER FOR PEACE (PHYSICS - Nuclear)	USIA ** //	170. BABY'S FIRST YEAR (MEDICINE-Child Care)	KB	190. BEACH MASTERS (ZOOLOGY)	LibFilms
128. ATMOSPHERIC PRESSURE: WITH THE MADDEBURG EXPERIMENT (PHYSICS)	EBF * MS	149. ATOMIC RADIATION (PHYSICS - Nuclear)	EBF *	171. BACK TO LIFE (MEDICINE - First Aid)	AETNA **	191. THE BEAR AND ITS RELATIVES (ZOOLOGY)	CORONET *
129. THE ATOM AND AGRICULTURE (PHYSICS - Nuclear)	EBF *	150. ATOMIC RESEARCH: AREAS AND DEVELOPMENT (PHYSICS - Nuclear)	CORONET * MS TV	172. BACTERIA - FRIEND AND FOE (MEDICINE - Bacteriology)	EBF * MS	192. THE BEAR AND THE HUNTER (ZOOLOGY)	EBF-WH * MS
130. THE ATOM AND BIOLOGICAL SCIENCE (BIOLOGY)	EBF *	151. ATOMS FOR HEALTH (MEDICINE - Atomic)	Handel TV	173. BACTERIAL SWARMS (MEDICINE - Bacteriology)	SAB *	193. BEARINGS, SINGLE LINE OF POSITION AND FIXES (GEOGRAPHY - Navigation)	USAF-UWF **
131. THE ATOM AND INDUSTRY (ENGINEERING)	EBF * / //	152. ATOMS FOR PEACE, PART I (PHYSICS - Nuclear)	USIA ** //	174. BALANCED AQUARIUM (ZOOLOGY)	EBF * MS	194. THE BEAVER (ZOOLOGY)	EBF *
132. THE ATOM AND MEDICINE (MEDICINE - Atomic)	EBF *	153. ATOMS FOR PEACE, PART II (MEDICINE - Atomic)	USIA ** //	175. BALANCES, PLATFORM AND TRIPLE BEAM (CHEMISTRY)	USoCal	195. BEAVER IN OKLAHOMA (ZOOLOGY)	USoF&A
133. THE ATOM AND THE DOCTOR (MEDICINE - Atomic)	Handel TV	154. ATOMS FOR PEACE, PART III (PHYSICS - Nuclear)	USIA ** //	176. BALANTIDIUM COLI AND ENDAMBEA HISTOLYTICA FROM BOWEL OF PATIENT (MEDICINE - Bacteriology)	SAB *	196. BEETLES (ZOOLOGY)	EBF *
134. THE ATOM AND THE WEATHER (PHYSICS - Meteorology)	Handel TV	155. ATTITUDES AND HEALTH (MEDICINE - Psychology)	CORONET *	177. BALLOONS: DEMONSTRATION OF A PROJECTIVE TECHNIQUE FOR THE STUDY OF AGGRESSION AND DESTRUCTION IN YOUNG CHILDREN (MEDICINE - Psychology)	Vassar	197. BEFORE THE BABY COMES (MEDICINE - Nursing)	KB
135. THE ATOM IN INDUSTRY (PHYSICS - Nuclear)	Handel TV	156. ATTRACTING BIRDS IN WINTER (ZOOLOGY)	IntFB	178. BASIC ELECTRICITY (PHYSICS - Electricity)	MinHR	198. BEHAVIOR EFFECTS OF EXCISING PARTS OF THE NERVOUS SYSTEM IN Frogs and Pigeons (MEDICINE - Psychology)	PSU-PCR
136. ATOM SMASHERS (PHYSICS - Nuclear)	EBF *	157. AUROREMICIN: THE VERSATILE ANTIBIOTIC (CHEMISTRY)	ACC-LEDER ** //	179. BASIC ELECTRONICS (PHYSICS - Electricity)	MinHR	199. BEHAVIOR IN HYPNOTIC REGRESSION (MEDICINE - Psychology)	PSU-PCR
137. ATOM SMASHERS (PHYSICS - Nuclear)	Handel TV	158. AUSTRALIA'S PLATYPUS (ZOOLOGY)	LibFilms-WH	180. BASIC HYDRAULICS (MH-5027a) (PHYSICS)	USNavy-UWF	200. BEHAVIOR OF UNICELLULAR ANIMALS (BIOLOGY)	PSU-PCR
138. THE ATOMIC ALCHEMIST (CHEMISTRY)	Handel TV	159. AUSTRALORIS GLABRATUS, VECTOR OF SCHISTOSOMA MANSONI (MEDICINE - Parasitology)	CDC **	181. BASIC PRINCIPLES OF THE ANALYTICAL BALANCE (PHYSICS)	CDC-UWF ** /	201. BEHAVIOR PATTERNS AT ONE YEAR (MEDICINE - Psychology)	EBF *
139. THE ATOMIC APOTHECARY - RADIOISOTOPE RESEARCH IN BIOLOGY AND MEDICINE (MEDICINE - Atomic)	MF Guild *	160. AUTOPSY TECHNIQUE (MEDICINE - Autopsy)	IO	182. BATHING THE PATIENT: HOME CARE	OE	202. BEHAVIORAL CHARACTERISTICS OF THE RHEUS MONKEY (MEDICINE - Psychology)	PSU-PCR
		161. AUXILIARY VIEWS (PART 1, 2) (ENGINEERING)	McG-H /			203. BEHIND THE SMILE (MEDICINE - Hygiene)	DCSTL
		162. AUXILIARY VIEWS: DOUBLE AUXILIARIES (ENGINEERING)	McG-H /			204. BEITRAGE ZUR BIOLOGIE DES HAKENWURMS IN CHINA (MEDICINE - Bacteriology)	SAB *

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
205. BELONGING TO THE GROUP (MEDICINE - Psychology)	EBF *	227. BIRDS OF PREY (ZOOLOGY)	EBF * //
206. BELOW KNEE AMPUTATION (PMW-5031) (MEDICINE - Surgery)	USArmy-P **	228. BIRDS OF THE COUNTRYSIDE (ZOOLOGY)	CORONET *
207. BENEATH OUR FEET (ZOOLOGY)	TFC *	229. BIRDS OF THE DOORYARD (ZOOLOGY)	CORONET *
208. BENIGN DENTAL TUMORS (DENTISTRY)	USArmy-P **	230. BIRDS OF THE INLAND WATERWAYS (ZOOLOGY)	CORONET *
209. BENIGN TUMORS OF THE UTERUS (MEDICINE - Pathology)	IO-R	231. BIRDS OF THE MARSHES (ZOOLOGY)	CORONET *
210. BETTER SEEDS FOR BETTER GRASSLANDS (BOTANY)	USDA MS	232. BIRDS OF THE PRAIRIE (ZOOLOGY)	MinnHol **
211. BETTER USE OF LEISURE TIME (MEDICINE - Psychology)	CORONET *	233. BIRDS OF THE SEA (ZOOLOGY)	TFC-20th Cent-Fox
212. BEWARE - SNAKES! (ZOOLOGY)	LibFilms-MH	234. BIRDS OF THE WOODLANDS (ZOOLOGY)	CORONET *
213. BICEPS TENDON TRANSFERENCE (MEDICINE - Surgery)	DG **	235. BIRDS OF WOODY ISLAND (ZOOLOGY)	Int.-FAMS
214. BIG PIPE MANEUVER (ENGINEERING)	USA-Eng **	236. BIRDS THAT EAT FISH (ZOOLOGY)	IntFB
215. BILATERAL FEMORAL VEIN INTERRUPTION (MEDICINE - Surgery)	DG **	237. BIRDS THAT EAT FLESH (ZOOLOGY)	IntFB
216. BILHARZIASIS IN WATER FOWL (PMW-5216) (MEDICINE - Veterinary)	USArmy-P **	238. BIRDS THAT EAT INSECTS (ZOOLOGY)	IntFB
217. THE BILLION DOLLAR MALADY (MEDICINE - Hygiene)	BRAY	239. BIRDS THAT EAT SEEDS (ZOOLOGY)	IntFB
218. BILLROTH I HEMI-GASTRECTOMY COMBINED WITH VAGOTOMY FOR DUODENAL ULCER (MEDICINE - Surgery)	DG **	240. BIRTH AND THE FIRST FIFTEEN MINUTES OF LIFE (MEDICINE - Psychiatry)	SPITZ
219. BILLY AND NANNY, THE GOAT TWINS (ZOOLOGY)	EBF * //	241. BIRTH OF A BUTTERFLY (ZOOLOGY)	STER TV
220. BIOGRAPHY OF A FISH (ZOOLOGY)	STER	242. BIRTH OF A GIANT (ENGINEERING) //	USA-Eng **
221. BIOLOGY OF DOMESTIC FLIES (BIOLOGY)	CDC-UWF	243. BIRTH OF A VOLCANO (GEOLOGY)	STER TV
222. THE BIOLOGY OF REPRODUCTION IN RATS (BIOLOGY)	WISTAR	244. BIRTH OF THE SOIL (SCIENCE - Misc.)	EBF *
223. BIRD NESTING TIME (ZOOLOGY)	MinnHol **	245. BIRTHPLACE OF ICEBERGS (GEOLOGY)	TFC-20th Cent-Fox *
224. BIRDS ARE INTERESTING (ZOOLOGY)	EBF *	246. BIRTHRIGHT (MEDICINE - Communicable Diseases)	COLUM
225. BIRDS IN WINTER (ZOOLOGY)	CORONET *	247. BLACK BEAR TWINS (ZOOLOGY)	EBF * //
226. BIRDS OF OUR STORYBOOKS (ZOOLOGY)	CORONET * MS TV	248. BLOOD CIRCULATION IN MARINE ANIMALS (BIOLOGY)	IO-R
		249. BLOWING DESERT (BOTANY)	GhasP
		250. BLUE TONGUE (MEDICINE - Veterinary)	USDA

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
251. BLUESTONE DAM: CONSTRUCTION PROGRESS (ENGINEERING)	USA-Eng **	273. BUILDING A BETTER WORLD (ENGINEERING)	Calit **
252. THE BOBOLINK AND BLUE JAY (ZOOLOGY)	CORONET *	274. BUILDING A HIGHWAY (ENGINEERING)	EBF *
253. BOBWHITE IN THE FENCE ROWS (ZOOLOGY)	Uofokla *	275. BUILDING BIRD HOUSES (ZOOLOGY)	IntFB
254. BODY CARE AND GROOMING (MEDICINE - Hygiene)	McG-H //	276. BUILDING THE GOLDEN GATE BRIDGE (ENGINEERING)	BETH **
255. BODY DEFENSES AGAINST DISEASE (MEDICINE - Physiology)	EBF * //	277. THE BULLY (MEDICINE - Psychology)	YAF
256. BODY FIGHTS BACTERIA (MEDICINE - Physiology)	McG-H	278. BUTTERFLIES (ZOOLOGY)	EBF * //
257. THE BONE BANK (MEDICINE - Hospitals)	Sturg //	279. THE BUTTERFLY: A LIFE CYCLE OF AN INSECT (ZOOLOGY)	CORONET * MS TV
258. BORROWING IN SUBTRACTION (MATHEMATICS - Arithmetic)	TFC *	280. BUTTERFLY BOTANISTS (ZOOLOGY)	CORONET *
259. BRAIN LESIONS AND THE BEHAVIOR OF RATS (MEDICINE - Psychology)	PSU-PCR		- C -
260. BREAKING THE WEB (ZOOLOGY)	Pictura TV	281. CABLE SPINNING (ENGINEERING)	UofWash *
261. BREAST AND AXILLA (MEDICINE - Surgery)	BURKE	282. CALCIFIED DEPOSITS IN THE ROTATOR CUFF (MEDICINE - Surgery)	DG **
262. BREAST CANCER: THE PROBLEM OF EARLY DIAGNOSIS (MEDICINE - Pathology)	ACS **	283. CALIFORNIA PICTURE BOOK (GEOGRAPHY)	UWF * //
263. BREAST PLASTIC: ONE STAGE OPERATION OF PENDULOUS BREASTS (MEDICINE - Surgery)	THOR **	284. CAMOUFLAGE IN NATURE THROUGH FORM AND COLOR MATCHING (BIOLOGY)	CORONET *
264. BROKEN APPOINTMENT (MEDICINE - Psychology)	MHFB	285. CAMOUFLAGE IN NATURE THROUGH PATTERN MATCHING (BIOLOGY)	CORONET *
265. BROOMSTICK GYM (MEDICINE - Physical Exercises)	BSA *	286. CANCER (MEDICINE - Pathology)	EBF *
266. BRONCHOGENIC CARCINOMA (MEDICINE - Pathology)	VETS-UWF **	287. CANCER EDUCATION (MEDICINE - Sanitation)	UWF *
267. A BRONCHOSCOPIC CLINIC (MEDICINE - Surgery)	JHMF	288. CANCER OF THE BLADDER (MEDICINE - Surgery)	BURKE
268. BROWN BEARS GO FISHING (ZOOLOGY)	CORONET * MS TV	289. CANCER OF THE FEMALE BREAST (MEDICINE - Pathology)	DG **
269. BUDDING YEASTS (MONILLIAS) (MEDICINE - Bacteriology)	SAB *	290. CANCER OF THE THYROID GLAND - TREATMENT OF A CASE BY RADIOACTIVE IODINE (MEDICINE - Atomic)	AMA **
270. BUFFALO LORE (ZOOLOGY)	HL	291. CANCER: THE PROBLEM OF EARLY DIAGNOSIS (MEDICINE - Pathology)	ACS **
271. BUILD WITH STEEL (ENGINEERING)	Amisc	292. CANINE EYES FOR THE BLIND (MEDICINE - Rehabilitation)	HFE
272. BUILDERS OF THE BROAD HIGHWAY, (PART 1, 2) (ENGINEERING)	FRITH	293. CARBON AND ITS COMPOUNDS (CHEMISTRY)	CORONET *

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
294. CARBON ARC PROJECTION (PHYSICS - Electricity)	NCC **	LANDING, TENNESSEE, FOR BANK PROTECTION ON THE MISSISSIPPI RIVER (ENGINEERING)		331. CESAREAN SECTION: CLASSICAL (PMF-5205) (MEDICINE - Obstetrics)	USArmy-P **	351. CHILDREN'S ZOO (ZOOLOGY)	USIA **
295. CARBON FOURTEEN (PHYSICS)	EBF *	313. THE CASTING OF DENTAL GOLD ALLOYS: THERMAL EXPANSION TECHNIQUE (DENTISTRY)	CON-BS	332. CESAREAN SECTION - NORTON PARAVESICAL EXTRAPERITONEAL TECHNIC WITH A CASE HISTORY (MEDICINE - Obstetrics)	McCall	352. CHIMPANZEE REARED IN DARKNESS (MEDICINE - Psychology)	PSU-PCR
296. CARBON-BLACK TREASURE (PHYSICS)	NCC **	314. CATALYSIS (CHEMISTRY)	EBF * //	333. CHAIN OF ASEPSIS (TF 8-1468) (MEDICINE - Hospitals)	USArmy-P-UNF **	353. CHIPMUNK AND HIS BIRD FRIENDS (ZOOLOGY)	BAILEY
297. CARCINOMA OF THE CECUM AND ASCENDING COLON (MEDICINE - Pathology)	DG **	315. CATARACT EXTRACTION (No. 13) (MEDICINE - Surgery)	DG **	334. THE CHAIN OF LIFE (ZOOLOGY)	Pictura TV	354. CHOLECYSTECTOMY FOR ACUTE CHOLECYSTITIS WITH CHOLELITHIASIS (MEDICINE - Surgery)	DG **
298. CARCINOMA OF THE THYROID: THYROIDECTOMY AND NECK DISSECTION (MEDICINE - Surgery)	DG **	316. CATARACT EXTRACTION (No. 113) (MEDICINE - Surgery)	DG **	335. THE CHANGING COTTON LAND: U.S.A.-THE SOUTHEAST (GEOGRAPHY)	UNF * //	355. CHOLECYSTOJEJUNOSTOMY (MEDICINE - Surgery)	THOR
299. CARDIOTOMY FOR REMOVAL OF BULLET IMBEDDED IN RIGHT VENTRICLE (MEDICINE - Surgery)	LaRue *	317. CATARACT EXTRACTION (MEDICINE - Surgery)	OPHTH-F **	336. CHARACTER NEUROSIS WITH DEPRESSIVE AND CONVULSIVE TRENDS IN THE MAKING (COMPLETE RORSCHACH REPORT DONE AT 8 AND 17 YEARS) (MEDICINE - Psychiatry)	Fries-Woolf	356. CHOLELITHIASIS WITH COMMON DUCT STONE (MEDICINE - Surgery)	DG **
300. CARE OF THE CARDIAC PATIENT (MEDICINE - Nursing)	OE /	318. CATHODE RAY TUBE - HOW IT WORKS (KW-21684) (PHYSICS)	USNavy-UNF	337. CHARACTERISTICS OF GASES (PHYSICS)	Edited	357. CHORDS & TANGENTS OF CIRCLES (MATHEMATICS - Geometry)	KB //
301. CARE OF THE FEET (MEDICINE - Hygiene)	EBF * /	319. CATS IN A PUZZLE BOX (MEDICINE - Psychology)	PSU-PCR	338. CHARACTERISTICS OF GIBBON BEHAVIOR (MEDICINE - Psychology)	PSU-PCR	358. CHOREA (MEDICINE - Psychiatry)	SPGood *
302. CARE OF THE HAIR AND NAILS (MEDICINE - Hygiene)	EBF * /	320. CATTLE AND THE CORN BELT: U.S.A. - THE MIDDLE WEST (GEOGRAPHY)	UNF * //	339. CHARACTERISTICS OF LIQUIDS (PHYSICS)	Edited	359. CHRONIC PURULENT OTITIS MEDIA (MEDICINE - Otorhinolaryngology)	MFGuild *
303. CARE OF THE NEW-BORN BABY: THE NURSE'S ROLE IN INSTRUCTING THE PARENTS (MEDICINE - Child Care)	OE /	321. CAUSTIC MAPPING (GEOGRAPHY - Maps)	JamH	340. CHARACTERISTICS OF PLANTS AND ANIMALS (BIOLOGY)	IND TV	360. CHUCKY LOU - THE STORY OF A WOODCHUCK (ZOOLOGY)	IND
304. CARE OF THE PATIENT WITH DIABETES MELLITUS (COMPLICATED) (MEDICINE - Nursing)	OE /	322. CAVING BANK PROTECTION WORK, PINE BLUFF, ARKANSAS (ENGINEERING)	USA-Eng **	341. CHARACTERISTICS OF SOLIDS (PHYSICS)	Edited	361. THE CICADA (ZOOLOGY)	USDA TV
305. CARE OF THE PATIENT WITH DIABETES MELLITUS (UNCOMPLICATED) (MEDICINE - Nursing)	OE /	323. CELL DIVISION - THE BASIS OF GROWTH IN ALL LIVING THINGS (BIOLOGY)	Phase-Lt. *	342. CHEATING (MEDICINE - Psychology)	YAF	362. CINEMOGRAPHY OF PROTEUS VULGARIS: TIME LAPSE PHOTOGRAPHIC RECORDS OF NORMAL GROWTH AND THE EFFECT OF PENICILLIN (MEDICINE - Bacteriology)	SAB *
306. CARE OF THE SICK AND INJURED (HM-1511B, E, F, I, J, L, S, V) (MEDICINE - Nursing)	USNavy **	324. THE CELL - STRUCTURAL UNIT OF LIFE (BIOLOGY)	CORONET *	343. CHEMICAL INSTRUMENTS - THE COLORIMETER (CHEMISTRY)	USoCal **	363. THE CINEPLASTIC OPERATION (PMF-5042) (MEDICINE - Surgery)	USArmy-P **
307. CARE OF THE SKIN (MEDICINE - Hygiene)	EBF * /	325. CELLULOSE DECOMPOSITION IN RATTURE (BIOLOGY)	10-R	344. CHEMICAL REACTIONS (CHEMISTRY)	Edited	364. THE CIRCLE (MATHEMATICS - Geometry)	KB //
308. CAREER: MEDICAL TECHNOLOGIST (MEDICINE - Lab. Procedures)	EBF * /	326. THE CENTRALINE PROCESS (ENGINEERING)	CENTRI	345. CHEMISTRY AND A CHANGING WORLD (CHEMISTRY)	EBF * //	365. THE CIRCULATION IN THE FETUS AND IN THE NEWBORN (MEDICINE - Physiology)	Sturg
309. THE CARNOT CYCLE AND THE KELVIN TEMPERATURE SCALE (PHYSICS)	McG-H	327. CEREBELLAR DISORDERS, DISORDERS INVOLVING THE LOWER MOTOR NEURONES, AND CONVULSIVE STATES (MEDICINE - Neurology)	PSU-PCR	346. CHEMISTRY OF COMBUSTION (CHEMISTRY)	Edited	366. CITRUS CULTURE (BOTANY)	PHP TV
310. CAROTID BODIES AND RESPIRATION (PMF-5113) (MEDICINE - Hematology)	USArmy-P **	328. CEREBRAL PALSY - METHODS OF AXILATION (MEDICINE - Nursing)	NYSACC *	347. CHICK EMBRYO TECHNIQUES (MEDICINE - Lab. Procedures)	CDC-UNF **	367. CITY OF THE SICK (MEDICINE - Hospitals)	OHIO *
311. A CASE OF TRUE HERMAPHRODITISM (MEDICINE - Surgery)	DG **	329. CERVICAL DIVERTICULECTOMY; ONE-STAGE OPERATION (MEDICINE - Surgery)	THOR *	348. A CHILD AT PLAY (MEDICINE - Psychology)	TCCU	368. CITY PETS: FUN AND RESPONSIBILITY (ZOOLOGY)	CORONET * MS TV
312. CASTING ARTICULATED CONCRETE MATTRESS AT RICHARDSON'S	USA-Eng **	330. CERVICITIS: ETIOLOGY, DIAGNOSIS, AND TREATMENT (MEDICINE - Gynecology)	MFGuild *	349. CHILD CARE AND DEVELOPMENT (MEDICINE - Psychology)	McG-H /	369. CITY WATER SUPPLY (MEDICINE - Sanitation)	EBF * //

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
370. CLEAN WATERS (MEDICINE - Sanitation)	GE **	(MEDICINE - Internal Medicine)		409. COMBINED ABDOMINO-PERINEAL RESECTION (ONE-STAGE) FOR CARCINOMA OF THE RECTUM (MEDICINE - Surgery)	DG **	427. COMPLETE NECK DISSECTION (MEDICINE - Surgery)	DG **
371. CLEANLINESS AND HEALTH (MEDICINE - Hygiene)	CORONET *	388. CLOCKING A CHAMPION (MEDICINE - Child Care)	NYH			428. COMPLICATED AMPUTATIONS - CASE REPORTS (PMF-5026) (MEDICINE - Surgery)	USArmy-P **
372. CLEANLINESS BRINGS HEALTH (MEDICINE - Hygiene)	USIA **	389. THE CLOTHES WE WEAR (CHEMISTRY)	CHU-Mex	410. COMBINED OPERATION: FUSION OF LUMBOSACRAL JOINT (MEDICINE - Surgery)	DG **	429. COMPLICATED EXOPHTHALMIA INTRODUCTION (MM-6722) (DENTISTRY)	USNavy-UWF **
373. CLIENT CENTERED THERAPY, PART 21: A FIRST INTERVIEW (MEDICINE - Psychology)	PSU-PCR	390. CLOUDS (PHYSICS - Meteorology)	Almanac	411. COMBINED RESECTION OF TONGUE AND FLOOR OF MOUTH WITH RADICAL NECK DISSECTION (MEDICINE - Surgery)	VETS-UWF **	430. THE COMPOUND MICROSCOPE (PHYSICS)	BALO
374. CLIENT CENTERED THERAPY, PART 21: THERAPY IN PROCESS; THE 32ND INTER- VIEW (MEDICINE - Psychology)	PSU-PCR	391. CLOUDS (PHYSICS - Meteorology)	CON-WB **	412. COVERACK (MEDICINE - Rehabilitation)	OVR	431. COMPREHENSIVE MODEL STUDY OF SPILLWAY, WOLF CREEK DAM, CUMBERLAND RIVER, KENTUCKY (ENGINEERING)	USA-Eng **
375. CLIMBING ABILITY OF NORWAY RATS (MEDICINE - Sanitation)	CDC **	392. CLOUDS ABOVE (PHYSICS - Meteorology)	BAILEY	413. COWING HOME (MEDICINE - Preventive)	NatIDA *	432. A CONCEPT OF MATERNAL AND NEONATAL CARE (MEDICINE - Obstetrics)	GW *
376. A CLINIC ON ACUTE HASTOIDITIS (MEDICINE - Otorhinolaryngology)	DOHO	393. COARCTATION OF THE AORTA (MEDICINE - Surgery)	DG **	414. COMMISSURECTOMY FOR MITRAL STENOSIS (MEDICINE - Surgery)	DG **	433. CONCRETE DITCHING FOR MALARIA CONTROL (MEDICINE - Sanitation)	CDC **
377. A CLINIC ON CHRONIC OTITIC PARALYSIS (PMF-5088) (Otorhinolaryngology)	DOHO	394. COARCTATION OF THE AORTA (MEDICINE - Surgery)	BURKE	415. COMMON ANIMALS OF THE WOODS (ZOOLOGY)	EBF * / //	434. CONCRETE POURING OPERATIONS, BAYOU SORREL LOCK (ENGINEERING)	USA-Eng **
378. A CLINIC ON DEAFNESS (MEDICINE - Otorhinolaryngology)	MFguld *	395. COELENTERATA AND CTENOPHORA, (PART I, II) (BIOLOGY)	IO-R	416. THE COMMON COLD (MEDICINE - Communicable Diseases)	EBF * /	435. CONDITIONED REFLEXES IN SHEEP (MEDICINE - Psychology)	PSU-PCR
379. A CLINIC ON PETROSITIS WITH NEURALGIA (Otorhinolaryngology)	MFguld *	396. COILS AND ELECTRIC CURRENTS (PHYSICS - Electricity)	Edited	417. COMMON DUCT EXPLORATION AND DRAINAGE WITH CHOLECYSTECTOMY (MEDICINE - Surgery)	THOR *	436. CONFESSIONS OF A COLD (MEDICINE - Hygiene)	ICS *
380. A CLINIC ON SIGMOID SINUS THROMBOSIS (Otorhinolaryngology)	MFguld *	397. THE COLLECTION OF ADULT FLIES (MEDICINE - Parasitology)	CDC-UWF **	418. COMMUNICABLE DISEASES (MEDICINE - Communicable Diseases)	CUTT ** //	437. CONGENITAL MALFORMATIONS OF THE HEART: DEVELOPMENT OF THE NORMAL HEART (MEDICINE - Physiology)	UofWash *
381. CLINIC ON THE DEAFENED (MEDICINE - Otorhinolaryngology)	DOHO	398. COLLOIDS (CHEMISTRY)	EBF *	419. COMMUNITY FLY CONTROL OPERATIONS (MEDICINE - Sanitation)	CDC **	438. CONGENITAL MALFORMATIONS OF THE HEART: CYANOTIC CONGENITAL HEART DISEASE (MEDICINE - Physiology)	UofWash *
382. CLINICAL MANIFESTATIONS OF PARALYSIS (PMF-5088) (MEDICINE - Physiology)	USArmy-P **	399. COLOR CATEGORIZING BEHAVIOR OF RHESUS MONKEYS (MEDICINE - Psychology)	CORONET *	420. COMMUNITY HEALTH AND YOU (MEDICINE - Sanitation)	McG-H	439. CONGENITAL MALFORMATIONS OF THE HEART: CYANOTIC CONGENITAL HEART DISEASE (MEDICINE - Physiology)	UofWash *
383. A CLINICAL PICTURE OF ANXIETY Hysteria (MEDICINE - Psychiatry)	VETS-UWF **	400. COLOR CHANGES IN FISH AND SQUIDS (ZOOLOGY)	IO-R	421. A COMMUNITY PROBLEM (MEDICINE - Sanitation)	CateT	440. CONGENITAL PULMONARY STENOSIS WITH INTACT INTERVENTRICULAR SEPTUM (MEDICINE - Surgery)	LaRue
384. A CLINICAL PICTURE OF CLAUSTROPHOBIA (MEDICINE - Psychiatry)	VETS-UWF **	401. COLOR CHANGES IN FROGS AND CRUSTACEANS (ZOOLOGY)	IO-R	422. COMPARATIVE TESTS ON A HUMAN AND A CHIMPANZEE INFANT OF APPROXIMATELY THE SAME AGE (MEDICINE - Psychology)	PSU-PCR	441. CONGRUENT FIGURES (MATHEMATICS - Geometry)	KB //
385. CLINICAL PSYCHOLOGY & HYPNOSIS (MEDICINE - Psychology)	PSU-PCR	402. COLOR OF MAN (MEDICINE - Physiology)	UofC /	423. COMPETITION AND DOMINANCE IN RATS (MEDICINE - Psychology)	PSU-PCR	442. CONQUERING DARKNESS (MEDICINE - Rehabilitation)	EYS
386. CLINICAL SHOES (MEDICINE - First Aid)	USArmy-P **	403. COLOR VISION (MEDICINE - Ophthalmology)	OPHTH-F **	424. COMPLETE DENTURES - ALGINATE IMPRESSIONS (MM-6720) (DENTISTRY)	USNavy-UWF	443. CONSTRUCTING A SANITARY PIT PRIVY (MEDICINE - Sanitation)	CDC-UWF ** /
387. CLINICAL USE OF HYALURONIDASE	WYETH ** //	404. THE COLORADO RIVER (GEOGRAPHY)	CORONET *	425. COMPLETE EXENTERATION OF THE PELVIS (MEDICINE - Surgery)	DG **	444. CONSTRUCTION AHEAD (ENGINEERING)	PSU
		405. COLOSTOMY CLOSURE (END TO END ANASTOMOSIS) (MEDICINE - Surgery)	USArmy-P UWF **	426. COMPLETE LACERATION OF THE PERINEUM (MEDICINE - Surgery)	DG **	445. CONSTRUCTION FOR DEFENSE (ENGINEERING)	USA-Eng **
		406. COLUMBIA FRONTIER (ENGINEERING)	Int-RECLAM ** TV				
		407. COMBAT EXHAUSTION (PMF-5012) (MEDICINE - Psychiatry)	USArmy-P UWF **				
		408. COMBINED ABDOMINAL AND RIGHT THORACIC APPROACH TO CARCINOMA OF THE MID- ESOPHAGUS (MEDICINE - Surgery)	DG **				

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
446. CONSTRUCTION OF A 138 KV UNDERGROUND TRANSMISSION LINE (ENGINEERING)	LAMP	(MEDICINE - Physiology)		483. CURRENT FLASHES (PHYSICS - Electricity)	JamH	502. DELIVERY OF QUADRUPLTS (MEDICINE - Obstetrics)	DG **
447. CONSTRUCTION OF A WILLOW FASCINE MATTRESS AT AVENUE, ARKANSAS (ENGINEERING)	USA-Eng **	463. CONTROL YOUR EMOTIONS (MEDICINE - Psychology)	CORONET *	484. CURVES OF COLOR (PHYSICS)	GE **	503. DEMONSTRATION OF CUSHING'S EXPERIMENT IN THE DOG (PMF-5111) (MEDICINE - Surgery)	USArmy-P **
448. CONSTRUCTION OF AN ACRYLIC JACKET FOR USE IN AN ABUTMENT OR AN INDIVIDUAL CROWN (DENTISTRY)	Schwartz *	464. CONVALESCENT CARE AND REHABILITATION OF PATIENTS WITH INJURY TO THE SPINAL CORD (PMF-5015) (MEDICINE - Nursing)	USArmy-P **	485. CYCLOELECTROLYSIS FOR GLAUCOMA (MEDICINE - ophthalmology)	OPHTH-F **	504. DENIZENS OF DEATH VALLEY (ZOOLOGY)	A&A
449. CONSTRUCTION OF NORFOLK DAM (ENGINEERING)	USA-Eng **	465. CONVERSION OF THE AURICULAR APPENDAGE INTO A VALVE TUBE FOR INTRACARDIAC SURGERY (MEDICINE - Surgery)	NYMedC	- D -		505. DENTAL AMALGAM: FAILURE CAUSED BY MOISTURE CONTAMINATION (DENTISTRY)	COM-BS
450. CONSTRUCTION OF PEORIA LOCK AND DAM (ENGINEERING)	USA-Eng **	466. CONVULSIVE AND ALLIED CONDITIONS (MEDICINE - Psychiatry)	SPGood	486. DOT AS A MOSQUITO LARVICIDE (MEDICINE - Sanitation)	CDC-UWF ** /	506. DENTAL ASSISTANTS, THEIR EFFECTIVE UTILIZATION (DENTISTRY)	USPHS **
451. CONSTRUCTION OF SCREW LOCK SECTIONAL SPLINT (PMF-5073) (MEDICINE - Surgery)	USArmy-P **	467. CONVULSIVE SHOCK THERAPY IN AFFECTIVE PSYCHOSES (MEDICINE - Psychology)	PSU-PCR	487. DOT IN THE CONTROL OF HOUSEHOLD INSECTS (TF 8-1408) (MEDICINE - Sanitation)	USArmy-P-UWF **	507. DENTAL BURS IN ACTION (DENTISTRY)	COM-BS
452. CONSTRUCTION RECORD, LOCK AND DAM NO. 3 (ENGINEERING)	USA-Eng **	468. COOPER'S LIGAMENT HERNIORRHAPHY: TRANSVERSE INCISION (MEDICINE - Surgery)	BURKE	488. DAFFODILS (BOTANY)	UnitSp	508. DENTAL HEALTH (TF 8-2096) (DENTISTRY)	USArmy-P **
453. CONTAMINATION OF WATER SUPPLIES BY BACK SIPHONAGE (MEDICINE - Sanitation)	UMINN	469. COPPER - MINING AND SMELTING (GEOLOGY - Mining)	EBF *	489. THE DANGER POINT (MEDICINE - Sanitation)	PCCI **	509. DENTAL HEALTH: HOW AND WHY (DENTISTRY)	CORONET *
454. CONTINUOUS SPINAL ANALGESIA IN CAESAREAN SECTION (MEDICINE - Obstetrics)	Abbott **	470. CORNEAL CONTACT LENSES (MEDICINE - ophthalmology)	OPHTH-F **	490. DANNY'S DENTAL DATE (MEDICINE - Hygiene)	ColPH	510. DENTURE RESIN (DENTISTRY)	COM-BS
455. CONTROL OF BODY TEMPERATURE (MEDICINE - Physiology)	EBF * /	471. CORRECTION OF CLEFT LIP (MEDICINE - Surgery)	DG **	491. A DAY TO REMEMBER (MEDICINE - Public Health)	USIA **	511. DENTURE SERVICE (DENTISTRY)	UMINN
456. CONTROL OF FILARIASIS IN TAHITI (MEDICINE - Tropical)	USOCAL //	472. CORRECTION OF NASAL DEFORMITIES (MEDICINE - Otorhinolaryngology)	DG **	492. DEADLY SPIDERS (ZOOLOGY)	LibFilms-WH	512. DESERT DEMONS (ZOOLOGY)	TFC *
457. CONTROL OF HOUSEHOLD INSECTS (TF 8-1468) (MEDICINE - Sanitation)	USArmy-P **	473. CORROSION (CHEMISTRY)	Atlelud	493. DEAF POST-RUBELLA SCHOOL CHILD, THE (MEDICINE - Psychology)	LEX **	513. DESERT LAND (ZOOLOGY)	LibFilms
458. CONTROL OF LOUSE-BORNE DISEASES (TF 8-1467) (MEDICINE - Sanitation)	USArmy-P **	474. CORROSION PROOF (CHEMISTRY)	Atlelud	494. DEBRIDEMENT OF COMPOUND FRACTURE OF THE SKULL (PMF-5085) (MEDICINE - Surgery)	USArmy-P **	514. DESERTS (GEOGRAPHY)	GATE
459. CONTROL OF MOSQUITO-BORNE DISEASES (TF 8-1465) (MEDICINE - Sanitation)	USArmy-P-UWF **	475. THE COW AND ITS RELATIVES (ZOOLOGY)	CORONET *	495. DECIMAL FRACTIONS (MATHEMATICS - Arithmetic)	JHUNT //	515. DESIGNING MACHINERY FOR ARC WELDING (ENGINEERING)	LinCEC
460. CONTROL OF SMALL BLOOD VESSELS (MEDICINE - Physiology)	BostonU	476. CRAWLING AND CREEPING (MEDICINE - Psychology)	IntFB	496. DECOMPRESSION OF THE GASSERIAN GANGLION AND POSTERIOR ROOT IN THE TREATMENT OF TRIGEMINAL NEURALGIA (DENTISTRY)	Woolsey **	516. DETERMINATION OF TYPES OF C. DIPHTHERIAE (MEDICINE - Communicable Diseases)	CDC-UWF **
461. CONTROL OF TONSIL HEMORRHAGE (MEDICINE - Nursing)	BURKE	477. CREVASSE (ENGINEERING)	USA-Eng **	497. DECORTICATION IN THE TREATMENT OF TUBERCULOUS PLEURITIS (PMF-5210) (MEDICINE - Surgery)	USArmy-P **	517. DEVELOPING IMAGINATION (MEDICINE - Psychology)	CORONET *
462. THE CONTROL OF VOLUNTARY MUSCLES (SOME PRINCIPLES OF KINESIOLOGY)	NU	478. CRIMINAL AT LARGE (MEDICINE - Tropical)	CDC ** /	498. THE DEER AND ITS RELATIVES (ZOOLOGY)	CORONET *	518. DEVELOPMENT AND BEHAVIOR OF THE WHITE RAT (MEDICINE - Psychology)	IntFB
		479. CRUSTACEANS: LOBSTERS, PRAWNS, SHRIMP, AND THEIR RELATIVES (ZOOLOGY)	EBF * NS	499. DEFENDING THE CITY'S HEALTH (MEDICINE - Sanitation)	EBF * //	519. DEVELOPMENT AND DESCENT OF THE TESTES (MEDICINE - Physiology)	Iason **
		480. CULTIVATE YOUR GARDEN BIRDS (ZOOLOGY)	UMINN	500. DEFENSE AGAINST INVASION (MEDICINE - Immunology)	USIA **	520. THE DEVELOPMENT OF A FROG (ZOOLOGY)	OSuniv
		481. CURIOSITY SHOP (CHEMISTRY)	ALCOA	501. DEFLECTION OUTPUT CIRCUITS (PHYSICS)	MC-GH	521. DEVELOPMENT OF COMMUNICATION (2nd Edition) (PHYSICS)	EBF * //
		482. THE CURIOUS COATI (ZOOLOGY)	YAF			522. DEVELOPMENT OF THE CHICK EMBRYO (ZOOLOGY)	CORONET *

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523. DEVELOPMENT OF THE GASTRO-INTESTINAL TRACT (MEDICINE - Physiology)	COLUM	541. DISCHARGE AND SEDIMENT OBSERVATIONS, VICKSBURG ENGINEER DISTRICT (ENGINEERING)	USA-Eng **
524. DEVELOPMENT OF ZEBRA FISH (ZOOLOGY)	WISTAR	542. DISEASE - THE UNHUNG RUSTLER (MEDICINE - Veterinary)	CUTT **
525. DIABETIC GANGRENE (MEDICINE - Surgery)	BURKE	543. DISEASES OF THE EAR, NOSE, AND THROAT (MEDICINE - Otorhinolaryngology)	JHMF *
526. THE DIAGNOSIS AND SURGICAL TREATMENT OF CONGENITAL HYPERTROPHIC PYLORIC STENOSIS (MEDICINE - Surgery)	DG **	544. DISEASES OF THE ESOPHAGUS (MEDICINE - Pathology)	JHMF *
527. THE DIAGNOSIS OF PERIPHERAL NERVE INJURIES (PME-518) (MEDICINE - Neurology)	USArmy-P **	545. DISEASES OF THE GALLBLADDER (MEDICINE - Surgery)	DG **
528. THE DIAGNOSIS OF POLIOMYELITIS (MEDICINE - Communicable Diseases)	NFIP **	546. DISEASES OF THE STOMACH AND DUODENUM (MEDICINE - Surgery)	DG **
529. THE DIAGNOSIS OF SURGICAL LESIONS OF THE ALIMENTARY TRACT. PART I: THE PRIMARY EXAMINATION (MEDICINE - Pathology)	USArmy-P **	547. DISORDERS OF COORDINATION (MEDICINE - Neurology)	COLUM
530. THE DIAGNOSIS OF SURGICAL LESIONS OF THE ALIMENTARY TRACT. PART 2: SPECIAL TECHNIQUES AND APPARATUS (MEDICINE - Pathology)	USArmy-P **	548. DISORDERS OF GAIT (MEDICINE - Neurology)	COLUM
531. THE DIAGNOSIS OF UTERINE MALFORMATIONS (MEDICINE - Pathology)	Jeffred	549. DISORDERS OF THE EXTRA-PYRAMIDAL SYSTEM AND THE POSTERIOR COLUMNS (MEDICINE - Neurology)	PSU-PCR
532. DIAPHRAGMATIC HERNIA: REPAIR BY TRANSABDOMINAL APPROACH (MEDICINE - Surgery)	BURKE	550. DISORDERS OF THE MOTOR TRIGEMINAL, SPINAL ACCESSORY, AND HYPOGLOSSAL NERVE (CRANIAL NERVES) (MEDICINE - Neurology)	COLUM
533. DIARY OF A SERGEANT (MEDICINE - Rehabilitation)	USArmy-P-UNF **	551. DISORDERS OF THE VESTIBULAR SYSTEM (MEDICINE - Neurology)	COLUM
534. THE DIESEL ENGINE AND THE IDEAL DIESEL CYCLE (PHYSICS)	McG-H	552. DISPERSAL OF SEEDS (BOTANY)	Edited
535. DIESEL, THE MODERN POWER (ENGINEERING)	Genm **	553. DISSOCIATIVE EFFECTS OF CURARE (MEDICINE - Psychology)	PSU-PCR
536. DIGESTION OF FOODS (BIOLOGY)	EBF * / //	554. DISTRIBUTING HEAT ENERGY (PHYSICS)	EBF * / //
537. THE DIGESTIVE SYSTEM (SFS 8-132) (MEDICINE - Physiology)	USArmy-P **	555. DIVIDING CANCER CELLS IN VITRO (MEDICINE - Pathology)	WISTAR
538. THE DIODE: PRINCIPLES AND APPLICATIONS (PHYSICS)	OE	556. DIVIDING NORMAL ADULT RAT FIBROBLASTS IN VITRO (BIOLOGY)	WISTAR
539. DIPHTHERIA AND CROUP (MEDICINE - Communicable Diseases)	ACC-Leder	557. DIVISION IS EASY (MATHEMATICS - Arithmetic)	CORONET *
540. DIRECT CURRENT CONTROLLERS (PHYSICS - Electricity)	OE /	558. DIVISION OF PATENT DUCTUS ARTERIOSUS (MEDICINE - Surgery)	BURKE
		559. DOCTOR IN INDUSTRY (MEDICINE - Industrial)	Genm **
		560. THE DOCTOR SPEAKS HIS MIND (MEDICINE - Pathology)	ACS **

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561. A DOG'S LIFE IN THE NORTH WOODS (ZOOLOGY)	STER	(MEDICINE - Psychology)	
562. DOMINANCE, NEUROSIS AND AGGRESSION IN CATS (MEDICINE - Psychology)	PSU-PCR	577. DYNAMICS OF RESPIRATION (MEDICINE - Physiology)	AMA **
563. DON'T BE AFRAID (MEDICINE - Psychology)	EBF *	578. DYNAMITE (MEDICINE - Sanitation)	CDC **
564. DON'T GET ANGRY (MEDICINE - Psychology)	EBF *	579. DYSTONIA MUSCULORUM DEFORMANS (MEDICINE - Psychiatry)	SPGood
		- E -	
565. THE DOPPLER EFFECT (PHYSICS)	McG-H	580. THE EARLY DEVELOPMENT OF THE RABBIT EGG IN VITRO (BIOLOGY)	WISTAR
566. THE DOUBLE PIN METHOD IN THE TREATMENT OF THE TIBIA AND FIBULA (MEDICINE - Surgery)	NymedC	581. EARLY DIVISIONS, 2-8 CELLS OF LIVING MONKEY EGG IN VITRO (BIOLOGY)	WISTAR
567. DRAWINGS AND THE SHOP (ENGINEERING)	McG-H /	582. EARLY HUMAN FETAL ACTIVITY (MEDICINE - Obstetrics)	UofPitts
568. DRILLING A WELL BY THE PERCUSSION METHOD (MEDICINE - Sanitation)	CDC-UNF **	583. EARLY SOCIAL BEHAVIOR (MEDICINE - Psychology)	EBF *
569. A DROP IN THE BUCKET (MEDICINE - Sanitation)	USPHS **	584. THE EARS AND HEARING (MEDICINE - Physiology)	EBF * / //
570. A DRY CLINIC ON SINUS THROMBOSIS (MEDICINE - Otorhinolaryngology)	DOHO	585. EARTH (SCIENCE - Misc.)	GATE
571. DUODENUM, SMALL AND LARGE INTESTINES (MEDICINE - Anatomy)	BURKE	586. THE EARTH (ASTRONOMY)	USNavy-UNF **
572. THE DU PONT STORY (CHEMISTRY)	DUPONT	587. EARTH IN MOTION (ASTRONOMY)	EBF * //
573. DWELLERS OF SWAMP AND POND: REEL I: THE SALAMANDERS (ZOOLOGY)	10-R	588. EARTH, LATITUDE AND LONGITUDE (ASTRONOMY)	Edited
574. DWELLERS OF SWAMP AND POND: REEL II: THE FROGS AND TOADS (ZOOLOGY)	10-R	589. EARTH, ROTATION AND REVOLUTION (ASTRONOMY)	Edited
575. DYNAMIC PHYSICAL RECONDITIONING (PHE-5659) (MEDICINE - Rehabilitation)	USArmy-P **	590. EARTH'S ROCKY CRUST (GEOLOGY)	EBF * //
576. DYNAMICS OF AN EXPERIMENTAL NEUROSIS PART I: CONDITIONED FEEDING BEHAVIOR AND INDUCTION OF EXPERIMENTAL NEUROSIS IN CATS PART II: EFFECTS OF ENVIRONMENTAL FRUSTRATIONS AND INTENSIFICATION OF CONFLICT IN NEUROTIC CATS PART III: EXPERIMENTAL DIMINUTION OF NEUROTIC BEHAVIOR IN CATS PART IV: ACTIVE PARTICIPATION IN ESTABLISHING MORE SATISFACTORY ADJUSTMENT	PSU-PCR	591. EARTHWORM (BIOLOGY)	Edited
		592. ECHINODERMATA (REEL I, II) (BIOLOGY)	10-R
		593. EDUCATED FEET (MEDICINE - Physical Exercises)	BAILEY
		594. EFFECT OF VARIOUS DRUGS ON CONTRACTIONS OF MESENTERIC LYMPHATICS IN THE RAT (MEDICINE - Physiology)	WISTAR
		595. EFFECTS OF DIRECT INTERRUPTED ELECTROSHOCK ON EXPERIMENTAL NEUROSIS (MEDICINE - Psychology)	PSU-PCR
		596. EFFECTS OF ELECTRICAL STIMULATION AND DESTRUCTION OF THE HYPOTHALAMUS IN THE CAT (MEDICINE - Psychology)	PSU-PCR

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597. EFFECTS OF ELECTROSHOCK THERAPY ON EXPERIMENTAL NEUROSSES (MEDICINE - Psychology)	PSU-PCR	616. ELECTRO-SHOCK THERAPY IN AMBULATORY PRACTICE (MEDICINE - Psychiatry)	10-R
598. EFFECTS OF ENVIRONMENTAL FRUSTRATION AND INTENSIFICATION OF CONFLICT ON NEUROTIC CATS (MEDICINE - Psychology)	PSU-PCR	617. ELECTROSTATICS (PHYSICS)	EBF * /
599. EFFECTS OF HEAT AND COLD ON THE CIRCULATION OF THE BLOOD (MEDICINE - Hematology)	CLARK-WISTAR	618. ELEMENTS OF ELECTRICAL CIRCUITS (PHYSICS - Electricity)	EBF * //
600. EFFECTS OF HEMIDEORTICATION IN THE DOG (MEDICINE - Surgery)	IND	619. ELEMENTS OF ELECTRICITY AS APPLIED TO IGNITION SYSTEMS (PHYSICS - Electricity)	USAF-UWF **
601. THE EFFECTS OF METALLIC IONS AND OSMOTIC DISTURBANCES ON THE HEART (MEDICINE - Physiology)	IND	620. ELEMENTS OF HARDENING (ENGINEERING)	OE /
602. EGGS AND MIRACIDIA OF SCHISTOSOMA HANSONI (MEDICINE - Parasitology)	CDC **	621. ELEMENTS OF SURFACE HARDENING (ENGINEERING)	OE /
603. EIGHT INFANTS: TENSION MANIFESTATIONS IN RESPONSE TO PROLONGED STIMULATION (MEDICINE - Psychology)	Hennif	622. ELEMENTS OF TEMPERING, NORMALIZING, AND ANNEALING (ENGINEERING)	OE /
604. ELECTRICITY (PHYSICS - Electricity)	GATE	623. ELEPHANTS (ZOOLOGY)	EBF * /
605. ELECTROCARDIOGRAPHY (PHF-5566) (MEDICINE - Physiology)	USArmy-P **	624. ELEVATED MAZE LEARNING IN THE WHITE RAT (MEDICINE - Psychology)	PSU-PCR
606. ELECTROCHEMISTRY (CHEMISTRY)	EBF * //	625. ELEVATION OF DEPRESSED FRACTURE (PHF-5098) (MEDICINE - Surgery)	USArmy-P **
607. AN ELECTRODIAGNOSTIC PROCEDURE (PHF-5066) (MEDICINE - Neurology)	USArmy-P **	626. THE EMBRYOLOGY OF THE EYE (MEDICINE - Ophthalmology)	AAOD **
608. ELECTRODYNAMICS (PHYSICS - Electricity)	EBF * //	627. EMBRYOLOGY OF THE LIVER, GALLBLADDER, AND PANCREAS (FG B-3) (MEDICINE - Physiology)	USArmy-P - UWF **
609. ELECTROLYSIS (PHYSICS - Electricity)	McG-H	628. EMERGENCE OF PERSONALITY (MEDICINE - Psychology)	EBF *
610. ELECTROMAGNETS (PHYSICS - Electricity)	YAF	629. EMERGENCY BLOOD COLLECTION AND ADMINISTRATION (MEDICINE - Lab. Procedures)	NYH
611. ELECTROMYOGRAPHIC PROCEDURE (PHF-5067) (MEDICINE - Physiology)	USArmy-P **	630. EMOTIONAL HEALTH (MEDICINE - Psychology)	McG-H /
612. THE ELECTRON - AN INTRODUCTION (PHYSICS - Electricity)	OE	631. ENCEPHALOGRAPHIC STUDIES IN EXTRA-PYRAMIDAL DISEASES (MEDICINE - Psychiatry)	SPGood
613. ELECTRONICS AT WORK (PHYSICS - Electricity)	Westh **	632. ENDORAL APPROACH TO TEMPORAL BONE SURGERY (MEDICINE - Surgery)	BURKE
614. ELECTONS (PHYSICS - Electricity)	EBF * //	633. ENDOCRINE GLANDS (MEDICINE - Physiology)	EBF * /
615. THE ELECTROSCOPE (PHYSICS - Electricity)	McG-H	634. THE ENDOCRINE SYSTEM (SFS B-130) (MEDICINE - Physiology)	USArmy-P **
		635. THE ENDOSCOPIC APPEARANCE OF DISEASES OF THE TRACHEA (MEDICINE - Pathology)	JHMF

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
636. ENDOTRACHEAL ANESTHESIA (MEDICINE - Anesthesiology)	SQUIBB **	656. EXAMINATION OF THE BREAST FOR EARLY CANCER (MEDICINE - Pathology)	BURKE
637. END-TO-END ANASTOMOSIS OF SPLENIC VEIN TO RENAL VEIN (MEDICINE - Surgery)	Sturg	657. EXAMINING THE ORAL CAVITY (DENTISTRY)	UMINN
638. THE ENEMY OF YOUR EYES (MEDICINE - Ophthalmology)	USInds	658. EXCISION ANAL FISSURE, FISTULECTOMY AND HEMORRHOIDECTOMY, WITH CAUDAL ANESTHESIA (MEDICINE - Surgery)	DG **
639. ENERGY (PHYSICS)	GATE	659. EXCISION OF ADENOMA OF THE THYROID (MEDICINE - Surgery)	DG **
640. ENERGY AND ITS TRANSFORMATION (PHYSICS)	EBF * //	660. EXCISION OF CHRONIC PERIAPICAL INFECTIONS (PHF-5191) (DENTISTRY)	USArmy-P - UWF **
641. ENERGY FROM THE SUN (PHYSICS)	EBF *	661. EXCISION OF GINGIVAL HYPERTROPHY (DENTISTRY)	USArmy-P **
642. ENGINEERS AT WORK (ENGINEERING)	USA-Eng **	662. EXCISION OF MANDIBULAR TORI (DENTISTRY)	USArmy-P **
643. ENVIRONMENTAL SANITATION (MEDICINE - Sanitation)	ICA(11AA)	663. EXCISION OF THYROID GLAND DUCT CYST (MEDICINE - Surgery)	DG **
644. EPIDEMIC ENCEPHALITIS (MEDICINE - Psychiatry)	SPGood	664. EXCYSTATION AND MOTILITY OF ENDOMEBA HISTOLYTICA (MEDICINE - Parasitology)	CDC-UWF **
645. THE EPIDEMIOLOGY OF INFLUENZA (MEDICINE - Communicable Diseases)	CDC-UWF **	665. EXERCISE AND HEALTH (MEDICINE - Physical Exercises)	CORONET * TV
646. EPIDEMIOLOGY OF MURINE TYPHUS (MEDICINE - Tropical)	CDC-UWF **	666. EXERCISE FOR HAPPY LIVING (MEDICINE - Physical Exercises)	EBF *
647. ERRORS OF REFRACTION (MEDICINE - Ophthalmology)	NU	667. THE EXFOLIATIVE CYTOLOGIC METHOD IN THE DIAGNOSIS OF GASTRIC CANCER (MEDICINE - Pathology)	ACS **
648. ESKIMO SEA HUNTERS: NORTH-WESTERN ALASKA (GEOGRAPHY)	UWF *	668. EXPERIMENTAL MALARIA TRANSMISSION (MEDICINE - Tropical)	CDC-UWF **
649. ESOPHAGEAL DIVERTICULUM (MEDICINE - Surgery)	DG **	669. EXPERIMENTAL MASOCHISM (MEDICINE - Psychology)	PSU-PCR
650. ESOPHAGOGASTROSTOMY FOR ACHALASIA OF THE ESOPHAGUS (MEDICINE - Surgery)	Sturg	670. EXPERIMENTAL "NEUROSIS" IN A DOG (MEDICINE - Psychology)	PSU-PCR
651. ESTABLISHING WORKING RELATIONS FOR THE DISABLED WORKER (MEDICINE - Rehabilitation)	OE	671. EXPERIMENTAL "NEUROSSES" IN MONKEYS (MEDICINE - Psychology)	PSU-PCR
652. THE ETERNAL CYCLE (BIOLOGY)	Handel TV	672. THE EXPERIMENTAL PSYCHOLOGY OF VISION (MEDICINE - Psychology)	INTFB
653. EVERY DROP A SAFE ONE (MEDICINE - Sanitation)	ICS //	673. EXPERIMENTAL STUDY OF ST. LOUIS ENCEPHALITIS VIRUS IN HORSES (MEDICINE - Veterinary)	HARM
654. EVISCERATION WITH PLASTIC SCALER IMPLANT (MEDICINE - Ophthalmology)	OPHTh-F **		
655. EXAMINATION OF THE EAR, NOSE AND THROAT, INSTRUMENTATION AND TECHNIQUE (MEDICINE - Otorhinolaryngology)	10		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
674. EXPERIMENTAL THIAMIN DEFICIENCY (PHE-3169) (MEDICINE - Internal)	USArmy-P **	689. EYES BRIGHT (MEDICINE - Hygiene)	AVIS //
675. EXPERIMENTALLY PRODUCED NEUROTIC BEHAVIOR IN THE RAT (MEDICINE - Psychology)	PSU-PCR	690. EYES FOR TOMORROW (MEDICINE - Hygiene)	KSPB *
676. EXPERIMENTS UPON A HUMAN AND A CHIMPANZEE INFANT AFTER SIX MONTHS IN THE SAME ENVIRONMENT (MEDICINE - Psychology)	PSU-PCR	691. EYES OF SERVICE (MEDICINE - Ophthalmology)	Beyeb
677. EXPLORATION WITH THE HIGH TEMPERATURE MICROSCOPE (PHYSICS)	Carbo **	692. EYES THAT HEAR (MEDICINE - Rehabilitation)	LEX **
678. EXPLOSION SPACE (ASTRONOMY)	TFC-Columbia *	- F -	
679. EXPLORING THE NIGHT SKY (ASTRONOMY)	ESF *	693. FACE OF THE EARTH (GEOLOGY)	EBF *
680. EXPLORING THE UNIVERSE (ASTRONOMY)	ESF *	694. FACE OF YOUTH (MEDICINE - Psychiatry)	UWIS
681. EXPLORING WITH THE MICROSCOPE (ENGINEERING)	Altelud	695. FACIAL EXPRESSIONS OF A HUMAN AND A CHIMPANZEE INFANT FOLLOWING TASTE STIMULI (MEDICINE - Psychology)	PSU-PCR
682. EXPLORING WITH X-RAYS (MEDICINE - Radiology)	GE **	696. FACIAL PALSY (MEDICINE - Neurology)	COLUM
683. EXTERIORIZATION OPERATION FOR CALCULUS OF SALIVARY GLANDS (MEDICINE - Surgery)	BURKE	697. FAIR CHANCE (MEDICINE - Public Health)	USIA ** //
684. EXTRAPERITONEAL CESAREAN SECTION (MEDICINE - Obstetrics)	BURKE	698. FALSE TRAUMATIC ANEURYSM OF RADIAL ARTERY (PHE-5083) (MEDICINE - Surgery)	USArmy **
685. EXTRAPERITONEAL CESAREAN SECTION - A SIMULATED PARANESCEAL TECHNIQUE (MEDICINE - Obstetrics)	Starbanel / ** //	699. FAR WESTERN STATES (GEOGRAPHY)	ESF *
686. EXTRAPERITONEAL FRANKELSTIEL INCISION (MEDICINE - Surgery)	USArmy-P **	700. FAREWELL TO CHILDHOOD (MEDICINE - Psychology)	MHFB
687. EXTRAPERITONEAL KATH CHESTNEY MODIFICATION (PHE-3169) (MEDICINE - Surgery)	USArmy-P **	701. FASH BABIES AND THEIR MOTHERS (ZOOLOGY)	Faafc
688. EYES AND THEIR CARE (MEDICINE - Hygiene)	ESF * //	702. FASCIA LATA REPAIR OF VENTRAL INCISION HERNIA (MEDICINE - Surgery)	lason **
		703. FEARS OF CHILDREN (MEDICINE - Psychology)	MHFB
		704. THE FEELINGINDEX (MEDICINE - Psychology)	UNIKX
		705. FEEDING THE PATIENT (MEDICINE - Nursing)	CE
		706. FEELING ALL RIGHT (MEDICINE - Psychiatry)	MISS
		707. FEMALE PELVIS (MEDICINE - Gynecology)	BURKE
		708. FEMORAL HERNIA IN THE FEMALE (AND) IN THE MALE (MEDICINE - Surgery)	LaRue *
		709. FEMORAL NERVE ANASTOMOSIS (MEDICINE - Surgery)	USArmy **

NOTE: See 0008, history on pages 13-16 for sources from which these motion pictures were obtained, and from which the photographs and were obtained to the following sources:

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TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
710. THE FENESTRATION OPERATION FOR OTOSCLEROSIS (MEDICINE - Otorhinolaryngology)	LaRue *	728. FIT TO WIN (MEDICINE - Physical Exercises)	TFC-Columbia *
711. FIDELITY OF REPORT (MEDICINE - Psychology)	PSU-PCR	729. FIVE COLORFUL BIRDS (ZOOLOGY)	CORONET *
712. FIELD TRIP TO A FISH HATCHERY (ZOOLOGY)	CORONET *	730. FLOOD PROTECTION, WABASH AND OHIO RIVER VALLEYS (ENGINEERING)	USA-Eng **
713. THE FIGHT AGAINST THE COMMUNICABLE DISEASES (MEDICINE - Communicable Diseases)	CDC-UNF **	731. FLOOD WEATHER (PHYSICS - Meteorology)	ComWB **
714. FIGHT SYPHILIS (PART A; PART B) (MEDICINE - Communicable Diseases)	USPHS ** //	732. THE FLOW OF ELECTRICITY (PHYSICS - Electricity)	YAF
715. FILARIASIS OF THE EYE CAUSED BY LOA LOA (MEDICINE - Bacteriology)	SAB *	733. FLOWERING DESERT (BOTANY)	Ghasp
716. FINGER PAINTING: CHILDREN'S USE OF PLASTIC MATERIALS (MEDICINE - Psychology)	Vassar	734. FLOWERS AT WORK (2nd edition) (BOTANY)	EBF * //
717. FIRE (PHYSICS)	GATE	735. FLUORIDATION (DENTISTRY)	USPHS **
718. FIRE (PHYSICS)	EBF *	736. FLUORIDATION STORY (DENTISTRY)	USPHS **
719. FIRST AID FUNDAMENTALS (MEDICINE - First Aid)	CORONET *	737. FLY DENSITY SURVEYS BY THE GRILL METHOD (MEDICINE - Sanitation)	CDC-UNF ** //
720. FIRST AID IN THE PREVENTION OF SHOCK (TF 8-1639) (MEDICINE - First Aid)	USArmy-P-UNF **	738. FONTANA DAM (ENGINEERING)	TVA
721. FIRST AID ON THE SPOT (MEDICINE - First Aid)	EBF *	739. FOR BETTER PERFORMANCE (ENGINEERING)	ETHYL
722. FIRST AID: PART I: MAJOR WOUNDS, FRACTURES, AND BURNS (TF 8-1571) PART II: EVERYDAY EMERGENCIES (TF 8-1581) (MEDICINE - First Aid)	USArmy-P-UNF **	740. FORCE AND MOTION (PHYSICS)	CORONET *
723. FIRST AID: WOUNDS AND FRACTURES (MEDICINE - First Aid)	EBF * //	741. THE FORCE OF GRAVITY (PHYSICS)	YAF
724. FIRST AS A CHILD (MEDICINE - Hospital)	CB *	742. FOREIGN BODIES IN THE AIR AND FOOD PASSAGES (MEDICINE - Otorhinolaryngology)	JHMF
725. THE FIRST HEART BEATS AND THE BEGINNING OF BLOOD IN THE EMBRYO (MEDICINE - Hematology)	UNIK-Med *	743. FORT RANDALL DAM (ENGINEERING)	USA-Eng **
726. FIRST LESSONS (MEDICINE - Psychology)	MHFB	744. FOSSILS ARE INTERESTING (PALEONTOLOGY)	Faafc
727. FISH ARE INTERESTING (ZOOLOGY)	Faafc	745. FOUNDATION EXPLORATIONS (ENGINEERING)	USA-Eng **
		746. FRACTURES ABOUT THE ELBOW (MEDICINE - Surgery)	VETS-CHU-WEX **
		747. FRACTURES ABOUT THE FOREARM (MEDICINE - Surgery)	VETS-CHU-WEX **
		748. FRACTURES ABOUT THE WRIST AND HAND (MEDICINE - Surgery)	VETS-CHU-WEX **
		749. FRACTURES: AN INTRODUCTION (MEDICINE - Surgery)	J&J

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
750. FRACTURES OF THE FEMUR ABOUT THE HIP JOINT (MEDICINE - Surgery)	YETS-CHU-WEX **	770. FUNDAMENTALS OF ACOUSTICS (PHYSICS)	EBF *
751. FRACTURES OF THE HUMERUS (MEDICINE - Surgery)	YETS-CHU-WEX **	771. FUNDAMENTALS OF MASSAGE (MEDICINE - Nursing)	OE
752. FRICTION (PHYSICS)	GATE	772. FUNGUS PLANTS (BOTANY)	EBF **
753. FRIEDREICH'S HEREDITARY ATAXIA AND LITTLE'S DISEASE (MEDICINE - Psychiatry)	SPGood	773. THE FUR SEAL (ZOOLOGY)	YAF
754. FRIEND IN BLUE (MEDICINE - Nursing)	UNINN	774. FUSELAGE CONSTRUCTION (ENGINEERING)	USAF-UMF **
755. FROG (ZOOLOGY)	EBF *	- G -	
756. THE FROG (ZOOLOGY)	Edited	775. GALILEO'S LAWS OF FALLING BODIES (PHYSICS)	EBF *
757. FROGS AND TOADS (ZOOLOGY)	Centron	776. GALLBLADDER AND BILE DUCTS (MEDICINE - Surgery)	BURKE
758. A FROG'S LIFE (ZOOLOGY)	CORONET * MS TV	777. GALLEY SANITATION (TF 8-1502) (MEDICINE - Sanitation)	USAF-UMF **
759. FROM CREEPING TO WALKING (MEDICINE - Psychology)	EBF *	778. GARRISON ON THE MISSOURI (ENGINEERING)	USA-Eng **
760. FROM ONE CELL (MEDICINE - Pathology)	ACS **	779. GARRISON SAFE-GUARDS (ENGINEERING)	USA-Eng **
761. FRUSTRATION AND FIXATION (MEDICINE - Psychology)	PSU-PCR	780. GARRISON TAKES SHAPE (ENGINEERING)	USA-Eng **
762. FRUSTRATION PLAY TECHNIQUES (MEDICINE - Psychology)	Vassar *	781. GAS FOR HOME AND INDUSTRY (ENGINEERING)	EBF
763. FUELS AND HEAT (PHYSICS)	EBF **	782. GAS LAWS AND THEIR APPLICATIONS: BOYLE, CHARLES, AND GAY-LUSSAC (PHYSICS)	EBF * MS
764. THE FUNCTION OF THE EAR IN HEALTH AND DISEASE (MEDICINE - Otorhinolaryngology)	DOHO	783. THE GASOLINE ENGINE (OTTO CYCLE) (PHYSICS)	MCG-H
765. FUNCTIONAL ANATOMY OF THE HAND (MEDICINE - Anatomy)	DUKE **	784. GASTRIC RESECTION WITH ANTERIOR COLIC ANASTOMOSIS FOR DUODENAL ULCER (MEDICINE - Surgery)	BURKE
766. FUNCTIONAL ANATOMY OF THE REPRODUCTIVE TRACT OF THE COW (MEDICINE - Anatomy)	IOSC **	785. GASTROINTESTINAL CANCER: THE PROBLEM OF EARLY DIAGNOSIS (MEDICINE - Pathology)	ACS **
767. FUNCTIONAL STUDY OF THE TONGUE AND THE VELOPHARYNGEAL MUSCULATURE (MEDICINE - Otorhinolaryngology)	UNINN	786. GENERAL EFFECTS OF COLD ON MAN (TF 8-1690) (MEDICINE - Physiology)	USAF-UMF **
768. THE FUNCTIONS OF THE EAR IN HEALTH AND DISEASE (MEDICINE - Otorhinolaryngology)	HFGuild *	787. GENERAL EFFECTS OF HEAT ON MAN (TF 8-1691) (MEDICINE - Physiology)	USAF-UMF **
769. FUNCTIONS OF THE NERVOUS SYSTEM (MEDICINE - Physiology)	KB	788. GENERAL NEUROLOGICAL EXAMINATION AND CLINICAL SIGNS OF DISORDERS OF THE PYRAMIDAL SYSTEM (MEDICINE - Neurology)	PSU-PCR
		789. GENESIS OF EMOTIONS (MEDICINE - Psychology)	SPITZ

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
790. GEOGRAPHY OF NEW ENGLAND (GEOGRAPHY)	CORONET *	811. GOODYE FLY (MEDICINE - Sanitation)	IOSC **
791. GEOGRAPHY OF THE PACIFIC STATES (GEOGRAPHY)	CORONET * MS TV	812. GOODYE, MR. GERN (MEDICINE - Communicable Diseases)	NatDA
792. GEOGRAPHY OF THE SOUTHERN STATES (GEOGRAPHY)	CORONET *	813. GRAM'S STAIN: A DEMONSTRATION OF THE TECHNIQUE (MEDICINE - Lab. Procedures)	Sturg
793. GEOGRAPHY OF THE SOUTHWESTERN STATES (GEOGRAPHY)	CORONET *	814. GRASPING (MEDICINE - Psychology)	SPITZ
794. GEOLOGICAL WORK OF ICE (GEOLOGY)	EBF **	815. THE GRASSHOPPER: A TYPICAL INSECT (ZOOLOGY)	CORONET * TV MS
795. GEOLOGY CAMP (GEOLOGY)	Uofokla	816. GRAVITY (PHYSICS)	CORONET *
796. GEOMETRY AND YOU (MATHEMATICS - Geometry)	CORONET *	817. GRAY GULL THE HUNTER (ZOOLOGY)	EBF-WF * MS
797. GEOMETRY IN ACTION (MATHEMATICS - Geometry)	LibFilms	818. GRAY SQUIRREL (ZOOLOGY)	EBF * /
798. GERMINATION OF SPORES OF BACTERIA (MEDICINE - Bacteriology)	SAB *	819. THE GREAT LAKES - HIGHWAY OF COMMERCE (GEOGRAPHY)	EBF * MS
799. A GIANT GROWS (ENGINEERING)	USA-Eng **	820. GRIEF: A PERIL IN INFANCY (MEDICINE - Psychiatry)	SPITZ
800. GIFT OF GREEN (BOTANY)	SugRef	821. GROUND WATER (GEOLOGY)	EBF **
801. GIRLS IN WHITE (Nursing)	RKO **	822. GROUSE OF THE GRASSLANDS (ZOOLOGY)	EBF *
802. GLACIER PARK STUDIES (GEOLOGY)	GhasP	823. GROWTH: A STUDY OF JOHNNY AND JIMMY (MEDICINE - Psychology)	IntFB
803. GLAUCOMA: WHAT THE GENERAL PRACTITIONER SHOULD KNOW (MEDICINE - Ophthalmology)	NSPB **	824. GROWTH CLEAVAGE - MATURATION DIVISION - MEIOSIS - IN SPERMATOGENESIS OF THE GRASSHOPPER PSOPHUS STRIDULUS L. (BIOLOGY)	Phase-Lt.
804. GLIMPSES OF LIVING EMBRYOS AT VARIOUS STAGES IN THEIR DEVELOPMENT (MEDICINE - Obstetrics)	Unich-Med	825. THE GROWTH OF BACTERIA, YEASTS, AND MOLDS (MEDICINE - Bacteriology)	SAB *
805. GLOBAL CONCEPTS IN MAPS (GEOGRAPHY - Maps)	CORONET *	826. THE GROWTH OF FLOWERS (BOTANY)	CORONET *
806. GLOBULIN MODIFIED ANTITOXINS (MEDICINE - Bacteriology)	ACC-Leder	827. GROWTH OF INFANT BEHAVIOR: EARLY STAGES (MEDICINE - Psychology)	EBF *
807. GLORY OF SPRING (BIOLOGY)	IntFB **	828. THE GROWTH OF INFANT BEHAVIOR, LATER STAGES (MEDICINE - Psychology)	EBF *
808. GOOD GROOMING FOR GIRLS (MEDICINE - Hygiene)	CORONET * MS TV	829. GROWTH OF CAPILLARIES AND ENDOTHELIUM FROM SUBCUTANEOUS TISSUE (MEDICINE - Lab. Procedures)	WISTAR
809. GOOD HEALTH PRACTICES, PART 1 (MEDICINE - Hygiene)	AVIS	830. GUARD YOUR HEART (MEDICINE - Physiology)	BRAY
810. GOOD HEALTH PRACTICES, PART 2 (MEDICINE - Hygiene)	AVIS		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
831. GUARDIANS OF OUR COUNTRY'S HEALTH (MEDICINE - Public Health)	FRITH	851. HEALTH: YOUR POSTURE (MEDICINE - Hygiene)	YAF	871. HEMORRHAGE FROM DUODENAL ULCER C-197 (MEDICINE - Pathology)	DG **	893. HOOKWORM (MEDICINE - Parasitology)	ICA(11AA)
832. A GUIDANCE PROBLEM FOR SCHOOL AND HOME (MEDICINE - Psychology)	TCOU	852. HEALTHY LUNGS (BIOLOGY)	CORONET *	872. HEREDITY (BIOLOGY)	EBF * / // MS	894. THE HORSE (ZOOLOGY)	EBF * / // USDA
833. GUIDING HAND (PHYSICS)	RCA	853. HEAD BETTER: HEALTHY EARS (BIOLOGY)	CORONET *	873. HEREDITY AND ENVIRONMENT (BIOLOGY)	CORONET *	895. HORSES AND BOTS (MEDICINE - Veterinary)	USDA
834. GULF OF MEXICO INVERTEBRATES (REEL I, II) (BIOLOGY)	IO-R	854. HEAR, NOW HEARING, AND CARE OF THE EARS (MEDICINE - Hygiene)	AVIS //	874. HEREDITY AND FAMILY ENVIRONMENT (MEDICINE - Psychology)	McG-H	896. HOSPITAL FOOD SERVICE PERSONNEL TRAINING: PART 1: INTRODUCTION (MEDICINE - Hospitals)	USArmy-UWF
835. GYMNASTICS (MEDICINE - Physical Exercises)	TFC-MGM *	855. HEART AND CIRCULATION (MEDICINE - Physiology)	EBF * / //	875. HEREDITY AND PRE-NATAL DEVELOPMENT (MEDICINE - Psychology)	McG-H /	897. HOSPITAL FOOD SERVICE PERSONNEL TRAINING: PART 2: THE INDIVIDUAL (MEDICINE - Hospitals)	USArmy-UWF
- H -		856. THE HEART AND HOW IT WORKS (MEDICINE - Physiology)	McG-H	876. HEREDITARY ATAXIA (MEDICINE - Neurology)	USArmy-P **	898. HOSPITAL FOOD SERVICE PERSONNEL TRAINING: PART 3: EQUIPMENT (MEDICINE - Hospitals)	USArmy-UWF
836. HALF A CHANCE (MF 1254) (MEDICINE - Rehabilitation)	USArmy-UWF	857. THE HEART: CARDIOVASCULAR PRESSURE PULSE (MEDICINE - Physiology)	SEARLE **	877. HEREDITARY VARIATIONS IN COLEUS (BOTANY)	USUniv	899. HOSPITAL FOOD SERVICE PERSONNEL TRAINING: PART 4: SERVING FOOD (MEDICINE - Hospitals)	USArmy-UWF
837. THE HALOGENS (CHEMISTRY)	CORONET *	858. HEART DISEASE: ITS MAJOR CAUSES (MEDICINE - Physiology)	EBF * MS	878. HERMITS OF CRABLAND (ZOOLOGY)	LibFilms	900. HOSPITAL SANITATION (TF 8-1708) (MEDICINE - Hospitals)	USArmy-P
838. THE HALSTED OPERATION FOR CARCINOMA OF THE BREAST (MEDICINE - Surgery)	DG **	859. THE HEART: ELECTROKYMNOGRAPHY, VENOUS CATHETERIZATION, AND ANGIOCARDIOGRAPHY (MEDICINE - Lab. Procedures)	SEARLE **	879. HERNIATION OF THE INTER-VERTEBRAL DISK (MEDICINE - Surgery)	BURKE	901. HOUSE OF MERCY (MEDICINE - Hospitals)	RKO * //
839. HAND DITCHING FOR MALARIA CONTROL (MEDICINE - Sanitation)	CDC **	860. HEART-LUNG PREPARATION (PMF-5170) (MEDICINE - Surgery)	USArmy-P	880. HERNIOPLASTY (MEDICINE - Surgery)	DG **	902. HOUSE-FLY (BIOLOGY)	EBF *
840. HAND TO MOUTH (MEDICINE - Sanitation)	DyReg	861. HEAT AND PRESSURE (PHYSICS)	Edited	881. HIGH-TEMPERATURE SHORT-TIME PASTEURIZATION (MEDICINE - Sanitation)	CDC-UWF	903. HOW ANIMALS DEFEND THEMSELVES (ZOOLOGY)	YAF
841. HANDICAPPED GO CAMPING (MEDICINE - Rehabilitation)	StaCwa	862. HEAT TREATMENT OF ALUMINUM (ENGINEERING)	OE /	882. HIGHWAY SOIL ENGINEERING (ENGINEERING)	COM-PR **	904. HOW ANIMALS EAT (ZOOLOGY)	YAF
842. HANDLE WITH CARE (MEDICINE - First Aid)	AETNA **	863. HEAT TREATMENT OF STEEL - ELEMENTS OF HARDENING (ENGINEERING)	OE /	883. HOME CARE IN ORAL PROPHYLAXIS (MEDICINE - Hygiene)	ScieFC //	905. HOW ANIMALS LIVE IN WINTER (ZOOLOGY)	CORONET * TV MS
843. HARBOR PILOT (GEOGRAPHY - Navigation)	BAILEY	864. HEAT TREATMENT OF STEEL - ELEMENTS OF SURFACE HARDENING (ENGINEERING)	OE /	884. HOME ELECTRICAL APPLIANCES (PHYSICS - Electricity)	EBF * /	906. HOW ANIMALS MOVE (ZOOLOGY)	YAF
844. HARNESSING FLOODS (ENGINEERING)	USA-Eng **	865. HEAT TREATMENT OF STEEL - ELEMENTS OF TEMPERING, NORMALIZING AND ANNEALING (ENGINEERING)	OE /	885. HOME NURSING (MEDICINE - Nursing)	EBF * //	907. HOW BEANS GROW (BOTANY)	Edited
845. HARNESSING THE RAINBOW (CHEMISTRY)	DUPONT	866. HELP WANTED (MEDICINE - First Aid)	J&J	886. HOME NURSING: FUNDAMENTALS (MEDICINE - Nursing)	CORONET *	908. HOW BILLY KEEPS CLEAN (MEDICINE - Hygiene)	CORONET *
846. THE HAWAIIAN ISLANDS - THEIR CHIEF INDUSTRIES (GEOGRAPHY)	Dowling /	867. HELPING CHILDREN DISCOVER ARITHMETIC (MATHEMATICS - Arithmetic)	Wayne	887. HOME NURSING IN PNEUMONIA (MEDICINE - Nursing)	NYH	909. HOW DISEASE TRAVELS (MEDICINE - Communicable Diseases)	USIA **
847. THE HAWAIIAN ISLANDS - THEIR ORIGIN AND NATURE TODAY (GEOLOGY)	Dowling /	868. HELPING THE CHILD TO ACCEPT THE DO'S (MEDICINE - Psychology)	EBF * //	888. HONEY BEE (ZOOLOGY)	EBF * //	910. HOW DO YOU ZOOI (ZOOLOGY)	STER
848. HEAD OF THE HOUSE (MEDICINE - Psychology)	USIA **	869. HELPING THE CHILD TO FACE THE DON'TS (MEDICINE - Psychology)	EBF * //	889. THE HONEYBEE (ZOOLOGY)	AL-MO TV	911. HOW MAN MADE DAY (PHYSICS)	CORONET *
849. HEALTH AND THE CYCLE OF WATER (MEDICINE - Sanitation)	CIPRA **	870. HEMICOLECTOMY FOR CARCINOMA OF THE RIGHT SIDE OF THE COLON: ONE STAGE PROCEDURE (MEDICINE - Surgery)	THOR **	890. THE HONEYBEE: A SOCIAL INSECT (ZOOLOGY)	CORONET * TV MS	912. HOW MOTION PICTURES MOVE AND TALK (PHYSICS)	UWF *
850. HEALTH EDUCATION AGAINST MALARIA (MEDICINE - Sanitation)	CDC **			891. THE HONEY INDUSTRY (BIOLOGY)	UoFC		
				892. THE HONEYMAKERS (ZOOLOGY)	UMINN		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
913. HOW NATURE PROTECTS ANIMALS (ZOOLOGY)	EBF * //	936. THE HUMAN BODY: SKELETON (BIOLOGY)	CORNET *
914. HOW OUR BODIES FIGHT DISEASE (MEDICINE - Physiology)	EBF * MS	937. THE HUMAN BRAIN (MEDICINE - Psychology)	EBF * MS
915. HOW PLANTS HELP US: OBSERVING THINGS ABOUT US (BOTANY)	CORNET * TV MS	938. THE HUMAN HAIR (BIOLOGY)	BRAY
916. HOW SEEDS GERMINATE (BOTANY)	USDA	939. HUMAN REPRODUCTION (BIOLOGY)	McG-H /
917. HOW TELEVISION WORKS (PHYSICS)	UNF *	940. HUMAN SEMEN ANALYSIS - MOTILE SPERMATOZOA AS INDEX OF FERTILITY IN MEN (BIOLOGY)	WISTAR
918. HOW THE EAR FUNCTIONS (BIOLOGY)	KB	941. HUMAN SEMEN ANALYSIS - TECHNIQUE FOR COUNTING MOTILE SPERM (BIOLOGY)	WISTAR
919. HOW THE EYE FUNCTIONS (BIOLOGY)	KB	942. THE HUMAN SKIN (BIOLOGY)	BRAY
920. HOW THE MOSQUITO SPREADS DISEASE (MEDICINE - Tropical)	BRAY	943. THE HUMAN THROAT (BIOLOGY)	BRAY
921. HOW THE RESPIRATORY SYSTEM FUNCTIONS (BIOLOGY)	BRAY	944. HUMMINGBIRD HOMELIFE (ZOOLOGY)	GhasP
922. HOW TO ADD FRACTIONS (MATHEMATICS - Arithmetic)	JHUNT //	945. HUNTING ANIMALS OF THE PAST (PALEONTOLOGY)	UofKeb
923. HOW TO AVOID MUSCLE STRAINS (MEDICINE - Physiology)	BRAY	946. HUNTINGTON'S CHOREA (MEDICINE - Psychology)	PSU-PCR
924. HOW TO BE WELL GROOMED (MEDICINE - Hygiene)	CORNET *	947. HURRICANE CIRCUIT (PHYSICS - Meteorology)	USIA ** //
925. HOW TO CATCH A COLD (MEDICINE - Hygiene)	KincI ** //	948. THE HYDRA (BIOLOGY)	Edited
926. HOW TO CHANGE FRACTIONS (MATHEMATICS - Arithmetic)	JHUNT //	949. HYDRAULIC DREDGING (MEDICINE - Sanitation)	CDC **
927. HOW TO DIVIDE FRACTIONS (MATHEMATICS - Arithmetic)	JHUNT //	950. HYDRAULICS (PHYSICS)	JBRH
928. HOW TO FIND THE ANSWER (MATHEMATICS - Arithmetic)	CORNET *	951. HYDROTHERAPY (MEDICINE - Nursing)	OE
929. HOW TO GIVE AND TAKE INSTRUCTIONS (MEDICINE - Psychology)	CORNET *	952. HYDROTHERAPY PROCEDURES FOR THE NEUROPSYCHIATRIC PATIENT (MEDICINE - Psychiatry)	YETS-UNF **
930. HOW TO MULTIPLY FRACTIONS (MATHEMATICS - Arithmetic)	JHUNT //	953. HYPERTENSION DUE TO PHOCHROMOCYTOMA (MEDICINE - Surgery)	DG **
931. HOW TO SUBTRACT FRACTIONS (MATHEMATICS - Arithmetic)	JHUNT //	954. HYPERTENSIVE CRISES - CLINICAL MANAGEMENT, PHARMACOLOGY, PHYSIOLOGY (MEDICINE - Hematology)	McG-H *
932. HOW WE GET OUR POWER (PHYSICS)	YAF	955. HYPNOTIC BEHAVIOR (MEDICINE - Psychology)	ASSOC
933. HOW WEATHER IS FORECAST (PHYSICS - Meteorology)	CORNET * TV MS	956. HYPODERMIC SYRINGES AND NEEDLES, THEIR CARE AND FUNCTION (MEDICINE - Lab. Procedures)	BecD **
934. HUMAN BEGINNINGS (MEDICINE - Psychology)	LFbeck		
935. THE HUMAN BODY (BIOLOGY)	USIA ** //		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
957. HYPOTHYROIDISM -- PHYSIOLOGY, DIAGNOSIS AND TREATMENT (MEDICINE - Endocrinology)	McG-H *	978. INDIVIDUAL DIFFERENCES (MEDICINE - Psychology)	McG-H /
958. HYSTERECTOMY: THREE-QUARTER INTRAFASCIAL TECHNIQUE (MEDICINE - Surgery)	DG **	979. INDIVIDUAL SEWAGE DISPOSAL SYSTEMS (MEDICINE - Sanitation)	CDC **
- I -		980. THE INDUSTRIAL ATOM (ENGINEERING)	Handel TV
959. I. V. STAT (MEDICINE - Lab. Procedures)	CUTT **	981. INDUSTRIAL EXHAUST SYSTEMS (ENGINEERING)	UMICH *
960. I AM ALCOHOLIC (MEDICINE - Psychology)	RKO *	982. INFANT CARE AND FEEDING (MEDICINE - Child Care)	USIA ** //
961. ICE RESCUE (MEDICINE - First Aid)	BSA	983. THE INFANT LARYNX (MEDICINE - Otorhinolaryngology)	JHMF *
962. THE IDEAL DIESEL CYCLE: DIESEL ENGINE (PHYSICS)	McG-H TV	984. INFECTIOUS HAZARDS OF BACTERIOLOGICAL TECHNIQUES (MEDICINE - Bacteriology)	CDC-UNF ** /
963. IGNITION AND SPARK PLUGS (PHYSICS)	Champ	985. INFECTIVE LARVAE OF VUCHERERIA BANCROFTI (MEDICINE - Parasitology)	CDC-UNF **
964. ILEOSTOMY (MEDICINE - Surgery)	DG **	986. INFERIOR RELATIONS OF THE SHOULDER JOINT (MEDICINE - Surgery)	DG **
965. ILEOSTOMY AND COLECTOMY (MEDICINE - Surgery)	DG **	987. THE INFINITE UNIVERSE (ASTRONOMY)	Almanac
966. IMITATION IN A HOME-RAISED CHIMPANZEE (MEDICINE - Psychology)	PSU-PCR	988. INGUINAL HERNIA (MEDICINE - Surgery)	DG **
967. IMMEDIATE DENTURE SERVICE (DENTISTRY)	UMINN	989. INGUINAL HERNIA AND HYDROCELE IN INFANTS AND CHILDREN (MEDICINE - Surgery)	Potts * //
968. IMMUNIZATION (MEDICINE - Immunology)	EBF * //	990. INGUINAL HERNIOPLASTY (MEDICINE - Surgery)	BURKE
969. IMMUNIZATION AGAINST INFECTIOUS DISEASES (MEDICINE - Immunology)	ACC-LEDER **	991. INJURIES OF THE PERIPHERAL NERVES (MEDICINE - Surgery)	ETHICON
970. IMPAIRMENT OF THE ABSTRACT ATTITUDE AS SHOWN ON THE STICK TEST (MEDICINE - Psychology)	PSU-PCR	992. THE INNER EAR: A CINEMATOGRAPHIC STUDY OF SOME ASPECTS OF ITS ANATOMY, PHYSIOLOGY, AND PATHOLOGY (MEDICINE - Otorhinolaryngology)	DOHO
971. IMPLANTATION FOR ENUCLEATION (MEDICINE - Surgery)	BURKE	993. THE INOCULATING NEEDLE (MEDICINE - Bacteriology)	CDC - UNF **
972. IMPORTANCE OF GOALS (MEDICINE - Psychology)	McG-H /	994. INSECT ZOO (ZOOLOGY)	EBF *
973. IMPROVING YOUR POSTURE (MEDICINE - Hygiene)	CORNET *	995. INSECTS (ZOOLOGY)	EBF *
974. IN OUR GARDEN (ZOOLOGY)	Edited	996. INSECTS AS CARRIERS OF DISEASE (MEDICINE - Parasitology)	JCA(IIAA) //
975. IN THE BEGINNING (GEOLOGY)	Soco-M	997. THE INSIDE STORY (MEDICINE - Communicable Diseases)	NatTDA **
976. INDIRECT INGUINAL HERNIA (MEDICINE - Anatomy)	EBF *		
977. INDIRECT MEASUREMENT (MATHEMATICS - Geometry)	KB //		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
998. INSIDE THE CELL. PART 2: REGULATION OF ENZYMES (PHF 5077-b) (CHEMISTRY)	USArmy-UWF	1015. INTRAPERITONEAL SIGMOID COLOSTOMY CLOSURE (SIDE TO SIDE ANASTOMOSIS) (MEDICINE - Surgery)	USArmy-P **	1036. ISOLATION TECHNIQUE (MW-1511x) (MEDICINE - Nursing)	USNavy-UWF	1056. KING OF THE RIVER (ZOOLOGY)	Pictura TV
999. INSTITUTIONAL TRAINING (MEDICINE - Nursing)	UMINN	1016. INTRAVENOUS ANESTHESIA AND TRACHEAL INTUBATION (MEDICINE - Anesthesiology)	BURKE	1037. IT'S MIGHTY CHEAP INSURANCE (ENGINEERING)	CALTEX **	1057. KNOW FOR SURE (MEDICINE - Communicable Diseases)	USPHS ** //
1000. INSTITUTIONS (MEDICINE - Rehabilitation)	PROG *	1017. INTRAVENOUS ANESTHESIA IN OPHTHALMIC SURGERY (MEDICINE - Anesthesiology)	McCas-T **	1038. IT'S UP TO YOU (MEDICINE - Sanitation)	CDC-UWF ** //	1058. THE KOALA, OR NATIVE BEAR (ZOOLOGY)	LibFilms-WH
1001. INSTRUCTING THE DISABLED WORKER ON THE JOB (MEDICINE - Rehabilitation)	OE	1018. INTRAVENOUS ANESTHESIA WITH BARBITURATES (MEDICINE - Anesthesiology)	Abbott **	1039. IT'S UP TO YOU (MEDICINE - Communicable Diseases)	NYH	- L -	
1002. INTEGRATIVE ASPECTS OF THE NERVOUS SYSTEM. Part 2: THE MOTOR SYSTEM (MEDICINE - Neurology)	USArmy-P **	1019. INTRODUCING THE REPTILES (ZOOLOGY)	McG-H	- J -		1059. LABOR AND CHILD BIRTH (MEDICINE - Obstetrics)	Mediap TV
1003. INTELLIGENCE OF WHITE RATS (MEDICINE - Psychology)	PSU-PCR	1020. INTRODUCTION AND LOCATION OF CELESTIAL POINTS (GEOGRAPHY - Navigation)	USAF-UWF	1040. JET PROPULSION (PHYSICS)	GE **	1060. LABORATORY CONTROL IN MILK SANITATION (MEDICINE - Sanitation)	CDC-UWF **
1004. INTERDEPENDENCE OF LIVING THINGS (BIOLOGY)	BRAY	1021. INTRODUCTION TO APHASIA (MEDICINE - Neurology)	VETS-CHU-WEX *	1041. JET PROPULSION (PHYSICS)	EBF *	1061. THE LABORATORY DIAGNOSIS OF INFLUENZA (MEDICINE - Communicable Diseases)	CDC-UWF **
1005. INTERNAL WIRING OF JAW FRACTURES (MEDICINE - Surgery)	DG **	1022. INTRODUCTION TO BIOLOGY (BIOLOGY)	EBF *	1042. JOURNEY BACK (MEDICINE - Rehabilitation)	VETS-UWF	1062. LABORATORY DIAGNOSIS OF RABIES (MEDICINE - Veterinary)	CDC-UWF **
1006. INTERSECTIONS OF SURFACES (ENGINEERING)	PURDUE *	1023. INTRODUCTION TO CHEMISTRY (CHEMISTRY)	CORONET *	1043. JOURNEY TO REALITY (PHF-5116c) (MEDICINE - Psychiatry)	USArmy-P-UWF **	1063. LAKES AND STREAMS OF MINNESOTA (MEDICINE - Sanitation)	UMINN
1007. INTRA-ABDOMINAL CLOSURE DESCENDING COLON COLOSTOMY (HERNIATIONS AND MULTIPLE OPENINGS) (MEDICINE - Surgery)	USArmy-P **	1024. INTRODUCTION TO ELECTRICITY (PHYSICS - Electricity)	CORONET *	1044. JUDY'S SMILE (MEDICINE - Hygiene)	AVIS //	1064. LANGUAGE OF DRAWING (ENGINEERING)	McG-H /
1008. INTRA-ABDOMINAL COLOSTOMY CLOSURE (RIGHT TO LEFT SIDE) (MEDICINE - Surgery)	USArmy-P **	1025. INTRODUCTION TO FRACTIONS (MATHEMATICS - Arithmetic)	JHUNT //	- K -		1065. THE LANGUAGE OF GRAPHS (MATHEMATICS - Graphs)	CORONET *
1009. INTRA-ABDOMINAL COLOSTOMY CLOSURE (TRANSVERSE LOOP, PAQUET METHOD) (MEDICINE - Surgery)	USArmy-P **	1026. INTRODUCTION TO PHYSICS (PHYSICS)	CORONET *	1046. KEITH, THE WOMBAT (ZOOLOGY)	LibFilms-WH	1066. THE LANGUAGE OF MATHEMATICS (MATHEMATICS)	CORONET *
1010. INTRAHEPATIC CHOLANGIO-JEJUNOSTOMY WITH PARTIAL HEPATECTOMY FOR BILIARY OBSTRUCTION LONGMIRE-SANFORD OPERATION (MEDICINE - Surgery)	DG **	1027. INTRODUCTION TO PSYCHO-THERAPEUTIC INTERVIEWING (MEDICINE - Psychiatry)	VETS-UWF **	1047. KENTUCKY DAM (ENGINEERING)	TVA	1067. LATERAL NECK (MEDICINE - Anatomy)	BURKE
1011. INTRAMAXILLARY MULTIPLE LOOP WIRING IN TREATMENT OF JAW FRACTURES (MEDICINE - Surgery)	USArmy-P **	1028. INTRODUCTION TO VECTORS: AN COPLANAR CONCURRENT FORCES (ENGINEERING)	OE /	1048. KERATOPLASTY (No. 112a) (MEDICINE - Surgery)	DG **	1068. LATITUDE BY POLARIS (GEOGRAPHY - Navigation)	USAF-UWF
1012. INTRAORAL AND PHARYNGEAL STRUCTURES AND THEIR MOVEMENTS (MEDICINE - Physiology)	VETS-UWF **	1029. THE INVADER (MEDICINE - Communicable Diseases)	COLUM TV	1049. KERATOPLASTY (No. 112b) (MEDICINE - Surgery)	DG **	1069. LAWS OF MOTION (PHYSICS)	EBF *
1014. INTRATHORACIC GOITER (MEDICINE - Surgery)	DG **	1030. THE INVADER (ZOOLOGY)	Pictura	1050. THE KESSLER INSTITUTE FOR REHABILITATION (MEDICINE - Rehabilitation)	Kessler *	1070. LEARNING ABOUT ELECTRIC CURRENT (PHYSICS - Electricity)	EBF * MS
		1031. INVERTEBRATES FROM THE GULF OF MAINE, (REEL 1, II) (BIOLOGY)	IO-R	1051. KIDNEYS, URETERS AND BLADDER, THEIR STRUCTURE AND FUNCTION (MEDICINE - Anatomy)	BRAY	1071. LEARNING ABOUT HEAT (PHYSICS)	EBF * MS
		1032. IRIODOCAPSULOTOMY AND CAPSULOTOMY (MEDICINE - Ophthalmology)	OPHTH-F **	1052. KILL 'EM WITH GAS (MEDICINE - Sanitation)	PURDUE *	1072. LEARNING ABOUT LIGHT (PHYSICS)	EBF * MS
		1033. IRON AND STEEL (GEOLOGY - Mining)	Edited	1053. KILL THE LOUSE (MEDICINE - Sanitation)	JCA(IIAA) //	1073. LEARNING ABOUT SOUND (PHYSICS)	EBF * MS
		1034. IRON-CARBON ALLOYS (GEOLOGY - Metallurgy)	ASM	1054. KILLERS (ZOOLOGY)	TFC *	1074. LEARNING AND GROWTH (MEDICINE - Psychology)	EBF *
		1035. IRON ORE MINING (GEOLOGY - Mining)	ACAD	1055. KING CRAB, LIMULUS (BIOLOGY)	IO-R	1075. LEASE ON LIFE (MEDICINE - Preventive)	NATDA **
						1076. LEAVES (BIOLOGY)	EBF *

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1077. A LECTURE ON THE SPIROCHETES (MEDICINE - Bacteriology)	SAB *	1099. LIFE CYCLE OF THE SOCKEYE SALMON (ZOOLOGY)	PHP	1120. LIGHT CONTROL THROUGH POLARIZATION (PHYSICS)	POLAROID ** //	1142. THE LONG CANE (PART 11: OUTDOORS) (MEDICINE - Rehabilitation)	VETS-UNF **
1078. LEFT LOWER LOBECTOMY (MEDICINE - Surgery)	DG **	1100. THE LIFE CYCLE OF TRICHINELLA SPIRALIS (MEDICINE - Bacteriology)	SAB *	1121. THE LIGHT IN YOUR LIFE (PHYSICS - Electricity)	GE	1143. A LONG TIME TO GROW (MEDICINE - Psychiatry)	Vassar
1079. TESLIE'S CUBE (PHYSICS)	McG-H	1101. THE LIFE HISTORY OF ENDAMEBA HISTOLYTICA (MEDICINE - Parasitology)	MAYO	1122. LIGHT IS WHAT YOU MAKE IT (PHYSICS)	BLBS	1144. LOOKING FOR THE ANSWERS (BIOLOGY)	McG-H
1080. LET ME SEE (MEDICINE - Rehabilitation)	USOCal	1102. THE LIFE HISTORY OF THE ROCKY MOUNTAIN WOOD TICK (MEDICINE - Parasitology)	HawM	1123. LIGHT WAVES AND THEIR USES (PHYSICS)	EBF * //	1145. LOSING TO WIN (MEDICINE - Physical Exercises)	MTL **
1081. LET'S CATCH REPTILES (ZOOLOGY)	InstF	1103. LIFE IN A DROP OF WATER (BIOLOGY)	CORONET *	1124. LIMESTONE CAVERNS (GEOLOGY)	CORONET *	1146. LOW CERVICAL MIDLINE INCISION (MEDICINE - Obstetrics)	USArmy-P **
1082. LET'S COUNT (MATHEMATICS - Arithmetic)	CORONET *	1104. LIFE IN A POND (BIOLOGY)	CORONET *	1125. LINDA AND ROY GO FISHING (MEDICINE - Psychology)	IMPCO *	1147. LOW CERVICAL PARAMEDIAN INCISION (MEDICINE - Obstetrics)	USArmy-P **
1083. LET'S GO TO THE ZOO (ZOOLOGY)	HARMON *	1105. LIFE IN AN AQUARIUM (ZOOLOGY)	YAF	1126. LINES & ANGLES (MATHEMATICS - Geometry)	KB //	1148. LUMBAR SYMPATHECTOMY (MEDICINE - Surgery)	THOR **
1084. LET'S HAVE FEWER COLDS (MEDICINE - Hygiene)	CORONET *	1106. LIFE IN THE DESERT: NORTH AMERICA (GEOGRAPHY)	EBF * MS	1127. LISTENING EYES (MEDICINE - Rehabilitation)	USOCal	1149. LUMBAR SYMPATHECTOMY (GANGLIONECTOMY) (MEDICINE - Surgery)	USArmy-P **
1085. LET'S KEEP THE KILLER DOWN (MEDICINE - Communicable Diseases)	ICS //	1107. LIFE IN THE FOREST: NORTH AMERICA (GEOGRAPHY)	EBF * MS	1128. LITTLE ISLAND BAYOU OUTLET STRUCTURE (ENGINEERING)	USA-Eng **	1150. LUMBAR SYMPATHETIC GANGLIONECTOMY (MEDICINE - Surgery)	Sturg
1086. LET'S LOOK AT ANIMALS (ZOOLOGY)	YAF	1108. LIFE IN THE GRASSLANDS: NORTH AMERICA (GEOGRAPHY)	EBF * MS	1129. LITTLE JOE OTTER (ZOOLOGY)	STER	1151. LUMBOSACRAL SPINAL FUSION WITH METALLIC PLATE FIXATION (MEDICINE - Surgery)	Sturg
1087. LET'S LOOK AT ELEPHANTS (ZOOLOGY)	McG-H	1109. LIFE IN THE OCEAN (ZOOLOGY)	PaofC	1130. LIVE TEDDY BEARS: THE MOALA (ZOOLOGY)	EBF * //	1152. LUNG CANCER: THE PROBLEM OF EARLY DIAGNOSIS (MEDICINE - Pathology)	ACS **
1088. LET'S LOOK AT MAPS (GEOGRAPHY - Maps)	VaDepte /	1110. LIFE OF A PLANT (BOTANY)	EBF * //	1131. LIVER FLUKE DISEASE IN SHEEP (FASCIOLIASIS) (MEDICINE - Veterinary)	USArmy-P **	1153. THE LYMPHATIC SYSTEM (MEDICINE - Physiology)	USArmy-P **
1089. LET'S MEASURE: INCHES, FEET AND YARDS (MATHEMATICS - Measurement)	CORONET *	1111. LIFE OF THE HARVESTER ANT, PART 1 (ZOOLOGY)	TompKF	1132. LIVES OF THEIR OWN (ZOOLOGY)	Pictura TV	- M -	
1090. LET'S OPEN OUR EYES (MEDICINE - Preventive)	ICS	1112. THE LIFE OF YOUR ARTIFICIAL DENTURE (DENTISTRY)	ARTWIL	1133. LIVING WITH LIMITATIONS (MEDICINE - Rehabilitation)	VETS-UNF **	1154. MACHINES DO WORK (PHYSICS)	YAF
1091. LEUKORRHEA, ITS DIAGNOSIS AND TREATMENT (MEDICINE - Bacteriology)	CIBA **	1113. THE LIFE STORY OF A WATERMOLD - ALLONYCES (BIOLOGY)	Phase MS TV	1134. LOADS OF COAL (GEOLOGY - Mining)	Inthar **	1155. MAGIC IN AGRICULTURE (CHEMISTRY)	ETHYL
1092. LEVELING FOR TOPOGRAPHIC MAPPING (ENGINEERING)	INT-Geos **	1114. LIFE WITH BABY (MEDICINE - Psychology)	MTFF *	1135. LOADS ON UNDERGROUND CONDUITS (ENGINEERING)	IOSC **	1156. MAGIC OF FLUORESCENCE (PHYSICS)	GE ** //
1093. LIFE ALONG THE WATERWAYS (ZOOLOGY)	EBF *	1115. LIFE WITH JUNIOR (MEDICINE - Psychology)	MTFF *	1136. LOBECTOMY AND SEGMENTAL RESECTION (MEDICINE - Surgery)	DG **	1157. THE MAGIC TOUCH: IMMUNIZATION (MEDICINE - Immunology)	AVIS TV
1094. LIFE BEGINS (MEDICINE - Psychology)	EBF *	1116. THE LIGATION AND STRIPPING TREATMENT OF VARICOSE VEINS (MEDICINE - Surgery)	DG **	1137. LOCALIZING TROUBLES (ENGINEERING)	McG-H /	1158. THE MAGNET (PHYSICS)	Edited
1095. LIFE CYCLE OF DIPHYLLOBOTHRIUM LATUM (MEDICINE - Parasitology)	CDC-UNF **	1117. LIGHT ALL ABOUT US (PHYSICS)	CORONET * TV MS	1138. THE LOCOMOTION OF SNAKES (ZOOLOGY)	McG-H	1159. MAGNETISM (PHYSICS)	CORONET *
1096. LIFE-CYCLE OF HARVESTER ANT, PART 2 (ZOOLOGY)	TompKF	1118. LIGHT AND POWER (PHYSICS)	TwC-FF *	1139. LOCUS (MATHEMATICS - Geometry)	KB //	1160. MAGNETISM (PHYSICS)	EBF * MS
1097. LIFE CYCLE OF THE DUCK (ZOOLOGY)	BAILEY	1119. LIGHT AND SHADOW (PHYSICS)	YAF	1140. THE LONELY NIGHT (MEDICINE - Psychiatry)	MHFB TV	1161. MAGNETS (PHYSICS)	YAF /
1098. THE LIFE CYCLE OF THE MOSQUITO (ZOOLOGY)	EYS			1141. THE LONG CANE (PART 1: INDOORS) (MEDICINE - Rehabilitation)	VETS-UNF **		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1162. MAKE YOUR OWN DECISIONS (MEDICINE - Psychology)	CORONET * TV MS	1182. MANAGEMENT OF STREPTOCOCCAL INFECTION AND ITS COMPLICATIONS (MEDICINE - Communicable Diseases)	WYTH **	1202. MAZE REACTIONS IN NORMAL AND THYROIDECTOMIZED SHEEP (MEDICINE - Psychology)	PSU-PCR	1223. MEETING THE NEEDS OF ADOLESCENTS (MEDICINE - Psychology)	McG-H
1163. MAKING A BALANCED AQUARIUM (BIOLOGY)	CORONET * TV MS	1183. MANAGEMENT OF THE FAILING HEART (MEDICINE - preventive)	Varick	1203. MEANING OF ADOLESCENCE (MEDICINE - Psychology)	McG-H	1224. MEIOSIS IN SPERMATOGONEISIS OF THE GRASSHOPPER PSOPHUS STRIDULUS L. (BIOLOGY)	Phase-Lt. *
1164. MAKING ELECTRICITY (PHYSICS - Electricity)	EBF * //	1184. MANCHESTER OPERATION (MEDICINE - Surgery)	DG **	1204. THE MEANING OF LONG DIVISION (MATHEMATICS - Arithmetic)	EBF *	1225. MEN AGAINST ROCK (ENGINEERING)	GAR-D
1165. MALARIA (MEDICINE - Tropical)	CDC-UWF ** /	1185. MANDIBULAR PROGNATHISM (DENTISTRY)	VETS-UWF **	1205. THE MEANING OF PERCENTAGE (MATHEMATICS - Arithmetic)	YAF	1226. MEN WORKING (ENGINEERING)	PSU
1166. MALARIA CONTROL IN THE TENNESSEE VALLEY (MEDICINE - Sanitation)	TVA	1186. MAN'S GREATEST FRIEND (MEDICINE - Veterinary)	TFC-MGM *	1206. THE MEANING OF PI (MATHEMATICS - Geometry)	CORONET *	1227. THE MENOPAUSE: ITS SIGNIFICANCE AND MANAGEMENT (MEDICINE - Gynecology)	SCHER ** //
1167. MALARIA CONTROL ON IMPOUNDED WATERS (MEDICINE - Sanitation)	CDC-UWF **	1187. MANKOW'S BLOOD FLUXE (MEDICINE - Parasitology)	CDC-UWF **	1207. MEANING OF PLUS AND MINUS (MATHEMATICS - Arithmetic)	EBF *	1228. MENTAL DEFECTIVES - GLANDULAR TYPES - HOMOGENEOUS AND CRETIN (MEDICINE - Internal)	IO-R
1168. THE MALE SEX HORMONE (MEDICINE - Physiology)	SCHER ** //	1188. THE MANUAL PREPARATION OF TABLET TRITURATES (MEDICINE - Internal)	AACP	1208. MEASUREMENT (MATHEMATICS - Measurement)	CORONET *	1229. MENTAL HEALTH: KEEPING MENTALLY FIT (MEDICINE - Psychology)	EBF *
1169. MALIGNANT ORAL TUMORS (PMF-5137) (MEDICINE - Pathology)	USArmy-P-UWF **	1189. MANUAL ROTATION IN THE MANAGEMENT OF OCCIPUT POSTERIOR AND OCCIPUT TRANSVERSE POSITIONS (MEDICINE - Obstetrics)	NU	1209. MEASUREMENT OF ELECTRICITY (PHYSICS - Electricity)	CORONET *	1230. MENTAL HOSPITAL (MEDICINE - Rehabilitation)	Uof Okla-IntFB
1170. MALNUTRITION IN THE HOSPITAL PATIENT (MEDICINE - Nursing)	Squibb **	1190. MAPS AND THEIR MEANING (GEOGRAPHY - Maps)	ACAD	1210. MEASUREMENT OF THE SPEED OF LIGHT (PHYSICS)	McG-H	1231. MERCURY (PHYSICS)	Edited
1171. MALROTATION OF THE BOWEL (MEDICINE - Pathology)	Potts *	1191. MAPS AND THEIR USES (GEOGRAPHY - Maps)	CORONET *	1211. MEASURING TEMPERATURE (PHYSICS)	YAF /	1232. MESENTERIC LYMPHATICS, THEIR CONDUCT AND THE BEHAVIOR OF THEIR VALVES IN THE LIVING RAT (MEDICINE - Physiology)	WISTAR
1172. MAMMALS ARE INTERESTING (ZOOLOGY)	EBF *	1192. MAPS ARE FUN (GEOGRAPHY - Maps)	CORONET *	1212. MEASUREMENT WITH LIGHT WAVES (PHYSICS)	OE /	1233. MESSAGE TO WOMEN (MEDICINE - Communicable Diseases)	USPHS **
1173. MAMMALS OF THE COUNTRYSIDE (ZOOLOGY)	CORONET *	1193. MAPS--LAND SYMBOLS AND TERMS (GEOGRAPHY - Maps)	ACAD	1213. MECHANICS OF LIQUIDS (PHYSICS)	CORONET *	1234. METAL CRYSTALS (GEOLOGY - Metallurgy)	ASM
1174. MAMMALS OF THE ROCKY MOUNTAINS (ZOOLOGY)	CORONET *	1194. MARINE ANIMALS AND THEIR FOODS (ZOOLOGY)	CORONET *	1214. MECHANICS OF VIBRATION (PHYSICS)	UMINN	1235. METAL MAGIC (GEOLOGY - Metallurgy)	GE **
1175. MAMMALS OF THE WESTERN PLAINS (ZOOLOGY)	CORONET *	1195. MARINE COMMUNITIES (ZOOLOGY)	IO-R	1215. THE MECHANISM OF CELL DIVISION (PMF-5063) (BIOLOGY)	USArmy-P **	1236. METALS AND NON-METALS (GEOLOGY - Metallurgy)	CORONET *
1176. MAN AGAINST MICROBE (MEDICINE - Bacteriology)	METL **	1196. MARINE CORROSION (PHYSICS)	MIAMI	1216. MECHANISMS OF BREATHING (MEDICINE - Physiology)	EBF * //	1237. A METHOD OF MIXING SILICATE CEMENT (DENTISTRY)	COM-BS **
1177. MAN ALIVE (MEDICINE - Hospitals)	ACS	1197. MARINE LIFE (ZOOLOGY)	EBF *	1217. THE MEDICAL EXAMINATION. PART 1: IMPORTANCE (TF 8-1536-37-38) (MEDICINE - Preventive)	USArmy-P **	1238. A METHOD OF PROCEDURE (MEDICINE - Psychiatry)	VETS-UWF **
1178. MAN TO MAN (MEDICINE - Psychiatry)	MHFB	1198. MASSAGE (MEDICINE - Nursing)	AMA **	1218. THE MEDICAL EXAMINATION. PART 2: MEDICAL HISTORY (MEDICINE - Preventive)	USArmy-P **	1239. METHOD OF REPAIR OF POSTERIOR TIBIAL NERVE (PMF-5132) (MEDICINE - Neurology)	USArmy-P **
1179. MAN WITH A THOUSAND HANDS (ENGINEERING)	Intrab **	1199. MASSIVE TIBIAL AND ILIAC BONE GRAFTS (MEDICINE - Surgery)	DG **	1219. THE MEDICAL EXAMINATION. PART 3: EXAMINATION (MEDICINE - Preventive)	USArmy-P **	1240. MICHAEL DISCOVERS THE MAGNET (PHYSICS)	EBF * MS
1180. MANAGEMENT AND TECHNIQUE OF PULMONARY LOBECTOMY (PMF-5065) (MEDICINE - Surgery)	USArmy-P **	1200. THE MASTER SLAVE (PHYSICS - Nuclear)	Handel TV	1220. MEET MCGONEDAL (MEDICINE - Rehabilitation)	USArmy-P **	1241. MICHIGAN MARSH AND SHORE BIRDS (ZOOLOGY)	MichDC
1181. MANAGEMENT OF ABDOMINAL COLONOSTOMIES (INTRA-PERITONEAL CLOSURES) (PMF-5068) (MEDICINE - Surgery)	USArmy-P **	1201. MATTER AND ENERGY (PHYSICS)	CORONET *	1221. MEET THE CRABS (ZOOLOGY)	HOLST	1242. MICHIGAN RED FOX (ZOOLOGY)	MichDC
				1222. MEET THE WATERFOWL (ZOOLOGY)	MichDC		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1243. MICROFILARIAE OF WUCHERERIA BANCROFTI (MEDICINE - Tropical)	CDC-UNF **	1261. MODEL STUDY OF SPILLWAY FOR SALINAS DAM (ENGINEERING)	USA-Eng **	1279. THE MONONGAHELA, AMERICA'S BUSIEST RIVER (GEOGRAPHY)	McG-H	1301. MOVEMENTS OF SOME COMMON PLANTS (BOTANY)	10-R
1244. MICROORGANISMS IN TEXAS FRESH WATER LAKES (BIOLOGY)	NTSC	1262. MODEL STUDY OF SPILLWAY FOR WAPPAPELLO DAM, ST. FRANCIS RIVER (ENGINEERING)	USA-Eng **	1280. THE MOON (ASTRONOMY)	EBF * //	1302. MOVING X-RAYS (PHYSICS)	Almanac
1245. MICROSCOPIC STUDIES IN POROUS MEDIA (GEOLOGY)	Uofokla	1263. MODERN COAL MINING (GEOLOGY - Mining)	Goodyear **	1281. MOOSE BABY (ZOOLOGY)	BARR TV	1303. MR. WILLIAMS WAKES UP (MEDICINE - Public Health)	NCSBH
1246. MICROSCOPIC STUDIES OF CAPILLARY FLOW (GEOLOGY)	PSU	1264. MODERN CONTROL OF POULTRY DISEASES (MEDICINE - Veterinary)	ACC-LEDER **	1282. THE MOSQUITO (MEDICINE - Sanitation)	EBF * //	1304. A MULTIPLE PERSONALITY (MEDICINE - Psychiatry)	MFould *
1247. MICROSCOPIC WONDERS IN WATER (BIOLOGY)	Dowling TV	1265. MODERN SURGERY (MEDICINE - Surgery)	MTFF *	1283. MOSQUITO PROOFING FOR MALARIA CONTROL (MEDICINE - Sanitation)	CDC **	1305. MULTIPLE SCREENING (MEDICINE - Preventive)	COLUM
1248. MIGRANT LABORERS AND THEIR CHILDREN (MEDICINE - Sanitation)	NYH	1266. MODERN TECHNIQUES FOR INITIATING BLOOD CULTURES (MEDICINE - Lab. Procedures)	BecD **	1284. MOSQUITOES (MEDICINE - Sanitation)	USDA **	1306. MULTIPLICATION IS EASY (MATHEMATICS - Arithmetic)	CORONET *
1249. MILK AND PUBLIC HEALTH (MEDICINE - Sanitation)	CDC-UNF **	1267. MODERN TECHNIQUES OF COLLECTING BLOOD SAMPLES (MEDICINE - Lab. Procedures)	BecD **	1285. MOSQUITOES AND MALARIA (MEDICINE - Sanitation)	Edited	1307. MUNICIPAL SEWAGE TREATMENT PROCESSES (MEDICINE - Sanitation)	CDC-UNF **
1250. MINERALS FROM THE SEA (GEOLOGY)	MIAMI	1268. MODERN WEATHER: THEORY AND STRUCTURE OF STORMS: DEVELOPMENT AND CHARACTERISTICS OF ATMOSPHERIC WAVES (PHYSICS - Meteorology)	USAF-UNF **	1286. MOTHER HEN'S FAMILY: THE WONDER OF BIRTH (BIOLOGY)	CORONET * TV MS	1308. MUSCLE STATUS (MEDICINE - Physiology)	COLUM
1251. MINING FOR NICKEL (GEOLOGY - Mining)	INCO.	1269. MODERN WEATHER: THEORY AND STRUCTURE OF STORMS: PRIMARY CIRCULATION (PHYSICS - Meteorology)	USAF-UNF **	1287. MOTHERHOOD - LIFE'S MOST IMPORTANT JOB (MEDICINE - Obstetrics)	ICS //	1309. MUSCULAR DYSTROPHIES, ATROPHIES, AND ALLIED CONDITIONS (MEDICINE - Psychiatry)	SPGood
1252. MIRACIDIA OF SCHISTOSOMA JAPONICUM (MEDICINE - Parasitology)	CDC **	1270. MODERN WEATHER: THEORY AND STRUCTURE OF STORMS: WEATHER IN VARIOUS PARTS OF AN OCCLUDED WAVE (PHYSICS - Meteorology)	USAF-UNF **	1288. MOTHERLOVE (MEDICINE - Psychology)	SPITZ	1310. MY CHILD IS BLIND (MEDICINE - Rehabilitation)	USArmy-UNF **
1253. MIRACLE OF LIVING (TFC-8-1474) (MEDICINE - Communicable Diseases)	USArmy-UNF	1271. MODIFICATION OF WILLYS-ANDREWS OPERATION FOR (LEFT) INGUINAL HERNIA (MEDICINE - Surgery)	Iason **	1289. MOTIS (MEDICINE - Sanitation)	EBF *	1311. MYCOSIS FUNGOIDES (MEDICINE - Surgery)	VETS-UNF **
1254. MIRACLE MAKERS (PHYSICS)	TFC-warner	1272. MODIFIED RETROPHIC PROSTATECTOMY (MEDICINE - Surgery)	VETS **	1290. MOTILE SPERMATOZOA AS AN INDEX OF FERTILITY IN MEN (PHASE MICROSCOPY) (BIOLOGY)	WISTAR	1312. THE MYSTERIES OF WATER (PHYSICS)	KB
1255. MIRACLE OF THE TREES (BOTANY)	IntFB	1273. MOLD AND YEAST (BOTANY)	EBF *	1291. MOTILITY AND FLAGELLA (MEDICINE - Bacteriology)	SAB *	1313. NARCOSYNTHESIS (MEDICINE - Psychology)	PSU-PCR
1256. THE MISSION OF THE MEMPHIS DISTRICT (ENGINEERING)	USA-Eng **	1274. MOLECULAR THEORY OF MATTER (PHYSICS)	EBF * //	1292. MOTILITY OF BACTERIA (MEDICINE - Bacteriology)	SAB *	1314. THE NATION'S BUILDING STONE (ENGINEERING)	INDLI
1257. MODEL STUDIES OF OUTLET STILLING BASIN, CHERRY CREEK DAM AND RESERVOIR (ENGINEERING)	USA-Eng **	1275. MOLLUSCA (REEL 1, II) (BIOLOGY)	10-R	1293. MOTIVATING THE CLASS (MEDICINE - Psychology)	McG-H /	1315. NATURALLY IT'S FM (PHYSICS)	GE **
1258. MODEL STUDY OF OUTLET STRUCTURES FOR WAPPAPELLO DAM, ST. FRANCIS RIVER (ENGINEERING)	USA-Eng **	1276. MOLLUSKS: SNAILS, MUSSELS, OYSTERS, OCTOPUSES, AND THEIR RELATIVES (ZOOLOGY)	EBF * MS	1294. MOTIVATING AND REWARD IN LEARNING (MEDICINE - Psychology)	PSU-PCR	1316. THE NATURE OF COLOR (PHYSICS)	CORONET *
1259. MODEL STUDY OF PENSTOCKS, NORRIS, BLUESTONE, AND NORFOLK DAMS (ENGINEERING)	USA-Eng **	1277. MONARCH BUTTERFLY (ZOOLOGY)	Coast	1295. MOTOR APPTITUDE TESTS AND ASSEMBLY WORK (MEDICINE - Psychology)	PSU-PCR	1317. THE NATURE OF ENERGY (PHYSICS)	CORONET *
1260. MODEL STUDY OF SPILLWAY AND STILLING BASIN FOR JOHN MARTIN (CAODDA) DAM, ARKANSAS RIVER (ENGINEERING)	USA-Eng **	1278. MONARCH BUTTERFLY STORY (ZOOLOGY)	EBF *	1296. MOUNT RAINIER (GEOGRAPHY)	Edited	1318. THE NATURE OF HEAT (PHYSICS)	CORONET *
				1297. MOUNT RAINIER (GEOGRAPHY)	InstF		
				1298. MOUNTAIN BUILDING (GEOLOGY)	EBF * //		
				1299. THE MOUNTAINS (GEOGRAPHY)	BARR TV		
				1300. MOVEMENTS OF ENDAMEBA HISTOLYTICA (MEDICINE - Parasitology)	CDC-UNF **		

NOTE: See CODE letters on pages 337-369 for SOURCES from which these motion pictures may be obtained, and TERMS affecting availability and use indicated by the following symbols:
 Rental - ** Related Strip - //
 Loan - ** Language Version - //
 Television - TV
 Magnetic Striping - MS
 Absence of symbol customarily indicates availability by purchase only. Availability sometimes depends on special conditions stated with SOURCE information.

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1319. THE NATURE OF LIGHT (PHYSICS)	CORONET *	1339. 1945 KEMPOT, KENTUCKY FLOOD (ENGINEERING)	USA-Eng **	1360. NURSING CARE IN POLIO-MELITIS: PART I - LOW SPINAL POLIO (MEDICINE - Nursing)	Sciencep	1379. OKLAHOMA DEER STORY (ZOOLOGY)	UofOkla
1320. THE NATURE OF SOUND (PHYSICS)	CORONET *	1340. THE 1937 FLOOD IN THE MEMPHIS DISTRICT, CORPS OF ENGINEERS (ENGINEERING)	USA-Eng **	1361. NURSING CARE OF THE POLIO-MELITIS PATIENT (PARTS 1,2,3) (MEDICINE - Nursing)	NFIP **	1380. OMAHA, RAIL METROPOLIS OF THE PLAINS (GEOGRAPHY)	McG-H
1321. NATURE'S PLAN (PHYSICS - Meteorology)	EBF *	1341. NITROGEN CYCLE (CHEMISTRY)	EBF *	1362. NURSING IN THE TROPICS (MEDICINE - Nursing)	USArmy-P **	1381. OMNI-BEARING DISTANCE NAVIGATION SYSTEM (GEOGRAPHY - Navigation)	USAF-UWF **
1322. NEPHROPEXY (MEDICINE - Surgery)	DG **	1342. NO VACANCY (ZOOLOGY)	HOLST	1363. NURSING TECHNIC (MEDICINE - Nursing)	CRADLE	1382. ON GUARD (MEDICINE - Communicable Diseases)	NYH
1323. NEPHROSIS IN CHILDREN (MEDICINE - Public Health)	Pfizer **	1343. NOMADS OF THE NORTH (GEOGRAPHY)	BAILEY	1364. NUTRITIONAL ASPECTS OF TROPICAL DISEASE (MEDICINE - Tropical)	SQUIBB **	1383. ON OUR OWN (MEDICINE - Rehabilitation)	NFIP **
1324. THE NERVOUS SYSTEM (BIOLOGY)	EBF * /	1344. NON-OPERATIVE TREATMENT OF PARANASAL SINUSITIS (MEDICINE - Otorhinolaryngology)	HFGuild *	- 0 -		1384. ON THE LEVEL (PHYSICS)	JamH
1325. NEUROLYSIS OF PERONEAL NERVE (MEDICINE - Surgery)	USArmy-P **	1345. NON-VERBAL COMMUNICATION (MEDICINE - Psychiatry)	YETS-UWF	1365. OBESITY: PROBLEMS OF FAT FORMATION AND OVERWEIGHT (MEDICINE - Physiology)	EBF *	1385. ON THESE FOUNDATIONS (ENGINEERING)	Hancock
1326. NEUROLYSIS OF ULNAR NERVE IN THE LOWER ARM (MEDICINE - Surgery)	USArmy-P **	1346. NORFOLK HYDRAULIC TESTS (ENGINEERING)	USA-Eng **	1366. OBSERVATIONS CONCERNING THE PHENOMENOLOGY OF EARLY ORAL BEHAVIOR (MEDICINE - Psychology)	Hennif	1386. ONE AGAINST THE WORLD (MEDICINE - Surgery)	TFC-MGM *
1327. NEURO-OPHTHALMOLOGICAL CONDITIONS: PATHOLOGICAL OCULAR MANIFESTATIONS OF CLINICAL INTEREST (MEDICINE - Psychiatry)	SPGood	1347. NORMAL AND ABNORMAL WHITE BLOOD CELLS IN TISSUE CULTURES (MEDICINE - Hematology)	WISTAR	1367. OBSTETRICAL MANEUVERS ON THE AYERS MANIKIN (MEDICINE - Obstetrics)	Cl-Ad	1387. ONE-STAGE RIGHT HEMI-COLECTOMY (MEDICINE - Surgery)	DG **
1328. NEUROTOMY OF MEDIAN AND ULNAR NERVES IN MID-ARM (MEDICINE - Surgery)	USArmy-P **	1348. A NORMAL BIRTH (MEDICINE - Obstetrics)	Medicap *	1368. THE OCCLUDED FRONTS (PHYSICS - Meteorology)	USNavy **	1388. ONE-STAGE TOTAL COLECTOMY FOR ULCERATIVE COLITIS (MEDICINE - Surgery)	DG **
1329. NEUROTOMY OF MEDIAN AND ULNAR NERVES IN THE LEFT FORE-ARM (MEDICINE - Surgery)	USArmy-P **	1349. NORMAL CHILD DEVELOPMENT: VOICE (MEDICINE - Psychology)	IO-R	1369. OCCUPATIONAL HEALTH PROBLEMS (MEDICINE - Industrial)	HFGuild *	1389. OPEN REDUCTION AND INTERNAL FIXATION OF FOREARM FRACTURES (MEDICINE - Surgery)	DG **
1330. NEUROTOMY OF ULNAR: NEUROLYSIS OF MEDIAN IN ARM (MEDICINE - Surgery)	USArmy-P **	1350. NORTH POLE (GEOGRAPHY)	YAF	1370. OCCUPATIONAL THERAPY IN PROBLEMS OF MOTION (PMP-S116) (MEDICINE - Rehabilitation)	USArmy-P-UWF **	1390. OPEN REDUCTION OF TIBIA AND FIBULA FOR MALUNION (MEDICINE - Surgery)	DG **
1331. NEUROSURGERY IN AN OVER-SEAS GENERAL HOSPITAL (MEDICINE - Surgery)	USArmy-P **	1351. NORTON PARAVESICAL EXTRA PERITONEAL CESARIAN OPERATION (MEDICINE - Surgery)	McCall	1371. OCULAR BIOMICROSCOPY (MEDICINE - Otorhinolaryngology)	HFGuild *	1391. OPERATION BLOOD BANK (MEDICINE - Lab. Procedures)	CUTT **
1332. NEW FRONTIERS OF MEDICINE (MEDICINE - Preventive)	MTFF *	1352. THE NOSE: STRUCTURE AND FUNCTION (BIOLOGY)	EBF * MS	1372. OCULOMOTOR DISORDERS (MEDICINE - Neurology)	COLUM	1392. OPERATION CONCRETE (ENGINEERING)	USA-Eng **
1333. NEW FUEL FOR NEW ENGLAND (ENGINEERING)	BECHT **	1353. THE NOSE, THROAT, AND EARS (MEDICINE - Hygiene)	McG-H /	1373. OF PUPS AND PUZZLES (MEDICINE - Psychology)	TFC-MGM *	1393. OPERATION FOR INDIRECT LINGUAL HERNIA (MEDICINE - Surgery)	Iason **
1334. A NEW HORIZON (MEDICINE - Physical)	NFIP *	1354. NOTHING BUT AIR (PHYSICS)	Instf /	1374. OHM'S LAW (PHYSICS - Electricity)	CORONET * TV	1394. OPERATION FOR VARICOCELE (MEDICINE - Surgery)	USArmy-P **
1335. NEWCASTLE DISEASE (MEDICINE - Veterinary)	ACC-LEDER **	1355. THE NUCLEAR REACTOR (PHYSICS - Nuclear)	McG-H	1375. OIL ACROSS THE ROCKIES (GEOLOGY)	BECHT **	1395. OPERATION ICE FLOW (ENGINEERING)	USArmy-P **
1336. NIAGARA FALLS (GEOLOGY)	NFE	1356. THE NUMBER SYSTEM (MATHEMATICS - Arithmetic)	EBF *	1376. OIL FILMS IN ACTION (ENGINEERING)	GerH **	1396. OPERATION IVT (PHYSICS - Nuclear)	USAF **
1337. NIGHT AND DAY (ASTRONOMY)	EBF * MS	1357. NUMBERS FOR BEGINNERS (MATHEMATICS - Arithmetic)	JHUNT	1377. OIL LARVICIDING (MEDICINE - Sanitation)	CDC **	1397. OPERATION OF BONNET CARRE SPILLWAY DURING THE 1937 FLOOD (ENGINEERING)	USA-Eng **
1338. NINE BASIC FUNCTIONAL SYSTEMS OF THE HUMAN BODY (MEDICINE - Physiology)	BRAY	1358. NURSE'S DAY WITH THE MENTALLY ILL (MEDICINE - Nursing)	PSU-PCR	1378. OIL TODAY, POWER TOMORROW (ENGINEERING)	FRITH	1398. THE OPERATION OF VALVES OF AN OX HEART (MEDICINE - Physiology)	USArmy-P
		1359. NURSING CARE IN POLIO-MELITIS (MEDICINE - Nursing)	USArmy-P			1399. OPERATIONS WILDLIFE (ZOOLOGY)	VaDepte

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1400. OPERATIVE CHOLANGIOGRAPHY (MEDICINE - Surgery)	VETS **	1419. OUR BIG, ROUND WORLD (GEOGRAPHY)	CORONET * TV	1440. PANCREATO-DUODENAL RESECTION FOR CARCINOMA OF THE HEAD OF THE PANCREAS OR CARCINOMA OF AMPULLA OF WATER (MEDICINE - Surgery)	DG **	1458. PEAT AND COAL (GEOLOGY - Mining)	Edited
1401. OPERATIVE PROCEDURE FOR TOTAL URINARY INCONTINENCE (MEDICINE - Surgery)	USArmy-P **	1420. OUR CHANGING EARTH (GEOLOGY)	UMich TV	1441. PARADE OF INVERTEBRATES, (REEL 1,2,3,4) (BIOLOGY)	10-R	1459. PEDIATRIC ANESTHESIA (MEDICINE - Anesthesiology)	SQUIBB **
1402. OPERATIVE PROCEDURES FOR POST-POLIO PARALYSIS (MEDICINE - Surgery)	NFIP **	1421. OUR COMMON FUELS (PHYSICS)	CORONET *	1442. PARALLEL LINES (MATHEMATICS - Geometry)	JHUNT //	1460. PELICAN, TURTLE, AND FISH FROM GULF OF FLORIDA (ZOOLOGY)	10-R
1403. OPERATIVE TREATMENT FOR HIRSCHSPRUNG'S DISEASE (MEDICINE - Surgery)	DG **	1422. OUR EARTH (GEOGRAPHY)	EBF * //	1443. A PARASITIC PLANT (BOTANY)	EBF *	1461. PENETRATING WOUNDS OF THE ABDOMEN (MM 7470) (MEDICINE - First Aid)	USNavy-UWF //
1404. ORAL CANCER: THE PROBLEM OF EARLY DIAGNOSIS (MEDICINE - Pathology)	ACS	1423. OUR ENEMIES, SAND AND GRAVEL (ENGINEERING)	USA-Eng **	1444. PAREGASTRIC REACTION (SCHIZOPHRENIA) IN A PERSON OF LOW INTELLIGENCE (MEDICINE - Psychology)	PSU-PCR	1462. PEPTIC ULCER (MEDICINE - Surgery)	WYETH ** //
1405. ORAL REHABILITATION (DENTISTRY)	VETS **	1424. OUR FEET (MEDICINE - Physiology)	BRAY	1445. PARIS GREEN LARVICIDING (MEDICINE - Sanitation)	CDC **	1463. PERCENTAGE (MATHEMATICS - Arithmetic)	JHUNT //
1406. ORBITAL RESECTION OPERATION FOR MALIGNANT EXOPHTHALMOS (MEDICINE - Surgery)	DG **	1425. OUR NATURAL RESOURCES (GEOGRAPHY)	Dowling	1446. PAROTIDECTOMY (MEDICINE - Surgery)	DG **	1464. PERFORMANCE TESTING (MEDICINE - Psychology)	UMINN
1407. ORGANIC DISORDERS OF THE LARYNX (MEDICINE - Otorhinolaryngology)	JHMF *	1426. OUR PRODUCTIVE LAND (GEOGRAPHY)	Dowling	1447. PAROTIDECTOMY, SUPERFICIAL LOBECTOMY FOR MIXED TUMOR WITH PRESERVATION OF THE FACIAL NERVE (MEDICINE - Surgery)	DG **	1465. PERICARDIAL RESECTION FOR CONSTRICTIVE PERICARDITIS (MEDICINE - Surgery)	DG **
1408. ORIGIN AND SYNTHESIS OF PLASTICS MATERIALS. (CHEMISTRY)	OE /	1427. OUR TEETH: THEIR GROWTH AND STRUCTURE (MEDICINE - Hygiene)	KR //	1448. PARTIAL DENTURES AND BRIDGES (DENTISTRY)	ARTWIL	1466. PERICARDIOTOMY FOR CHRONIC CARDIAC COMPRESSION DUE TO CONSTRICTING PERICARDITIS (MEDICINE - Surgery)	ULSM
1409. ORTHOGRAPHIC PROJECTION (ENGINEERING)	MCG-H /	1428. OUR WEATHER (PHYSICS - Meteorology)	EBF * MS	1449. PARTIAL DENTURES - BIOMECHANICS (DENTISTRY)	USNavy-UWF //	1467. PERIODONTIA (MM-5370) (DENTISTRY)	USNavy-UWF //
1410. ORTHOPEDIC REHABILITATION OF SPINAL CORD INJURIES (MEDICINE - Physical)	ICD	1429. OUT OF THE SHADOWS (MEDICINE - Rehabilitation)	USoCal	1450. PARTIAL NEURORRHAPHY OF THE SCIATIC NERVE IN THE BUTTOCK (MEDICINE - Surgery)	USArmy-P **	1468. PERIPHERAL NERVE INJURIES (PWF 5053) (MEDICINE - Neurology)	USArmy-P //
1411. OSZMOSIS (BIOLOGY)	TFC *	1430. OUTBREAK (MEDICINE - Veterinary)	USDA	1451. PARTIAL RESECTION OF THE STOMACH FOR DUODENAL ULCER (MEDICINE - Surgery)	DG **	1469. PERIPHERAL NERVE SURGERY PART I: SCIATIC NERVE (PWF 5061) (MEDICINE - Surgery)	USArmy-P //
1412. THE OTHER FELLOW'S FEELINGS (MEDICINE - Psychology)	YAF	1431. THE OUTSIDER (MEDICINE - Psychology)	YAF	1452. PARTS OF NINE (MATHEMATICS - Arithmetic)	YAF	1470. PERITONEOSCOPY (MEDICINE - Surgery)	BURKE
1413. OTHER PEOPLE'S PROPERTY (MEDICINE - Psychology)	YAF	1432. OVERCOMING FEAR (MEDICINE - Psychology)	CORONET *	1453. PARTS OF THINGS (MATHEMATICS - Arithmetic)	YAF	1471. PERITONEUM (MEDICINE - Surgery)	BURKE
1414. OTITIS MEDIA IN PEDIATRICS (MEDICINE - Pediatrics)	DOHO	1433. OVERCOMING WORRY (MEDICINE - Psychology)	CORONET *	1454. PASSAGE TO THE PRIBILOF (ZOOLOGY)	Fouke	1472. PERONEAL NERVE ANASTOMOSIS AT THE KNEE (PWF-3088) (MEDICINE - Surgery)	USArmy **
1415. OTOSCOPY CINEMATOGRAPHY OF THE TYMPANIC MEMBRANE AND MIDDLE EAR (MEDICINE - Otorhinolaryngology)	JHMF *	1434. OVULATION, FERTILIZATION, AND EARLY DEVELOPMENT OF THE MAMMALIAN EGG (BIOLOGY)	USDA	1455. THE PATHOLOGY OF SCHISTOSOMIASIS MANSONI (MEDICINE - Pathology)	CDC **	1473. PERSONAL HEALTH FOR GIRLS (MEDICINE - Hygiene)	CORONET *
1416. OTOSCOPY IN THE INFLAMMATIONS (MEDICINE - Otorhinolaryngology)	DOHO	1435. OXIDATION AND REDUCTION (CHEMISTRY)	EBF * //	1456. PAY ATTENTION: PROBLEMS OF HARD OF HEARING CHILDREN (MEDICINE - Rehabilitation)	Vassar	1474. PERSONAL HYGIENE FOR BOYS (MEDICINE - Hygiene)	CORONET *
1417. THE OTTO CYCLE: GASOLINE ENGINE (PHYSICS)	MCG-H TV	1436. OXYGEN (CHEMISTRY)	CORONET *	1457. PAY DIRT (GEOLOGY - Mining)	GAR-D	1475. THE PETRIFIED RIVER: THE STORY OF URANIUM (PHYSICS - nuclear)	NCC
1418. OUR ANIMAL NEIGHBORS (ZOOLOGY)	CORONET *	- P -				1476. PETROLEUM (GEOLOGY)	EBF * //
		1437. THE P & H SINGLE PASS PROCESSING METHOD - BITUMINOUS (ENGINEERING)	P&H			1477. PETROLEUM AND ITS PRODUCTS (GEOLOGY)	Edited
		1438. PALLIATIVE: ELECTRO-COAGULATION OF ADVANCED CANCER OF THE RECTUM (MEDICINE - Surgery)	Tdec			1478. PETROLEUM AND ITS USES (GEOLOGY - Mining)	SINCL
		1439. PALLIATIVE SURGERY IN ADVANCED CANCER OF THE RECTUM (MEDICINE - Surgery)	Tdec				

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1479. PHANTOM SEA (GEOLOGY)	AA	1500. PLANT TRAPS (BOTANY)	EBF *	1520. POSTURE AND EXERCISE (MEDICINE - Physiology)	EBF * /	1541. PRESERVATION OF BACTERIA BY DESICCATION IN VACUO (MEDICINE - Bacteriology)	CDC-WF **
1480. PHASE MICROSCOPY OF NORMAL LIVING BLOOD CELLS: PART I: PERIPHERAL BLOOD (MEDICINE - Hematology)	usfWash TV	1501. PLANTS MAKE FOOD (BOTANY)	CHU-WEX	1521. POSTURE AND LOCOMOTION (MEDICINE - Psychology)	EBF *	1542. PRESSURE STEAM STERILIZATION (MEDICINE - Hospital)	AMSTER **
1481. PHOTO GEOLOGY - A NEW LOOK FOR OIL (GEOLOGY)	Geophoto	1502. PLASTER CASTS (MEDICINE - Lab. Procedures)	USArmy-P	1522. POSTURE HABITS (MEDICINE - Hygiene)	CORONET *	1543. PREVENT DYSENTERY (MEDICINE - Sanitation)	ICA(IIIA)
1482. PHYSICAL ASPECTS OF PUBERTY (BIOLOGY)	McG-H	1503. PLASTIC REPAIR OF THIGH STUM (MEDICINE - Surgery)	USArmy-P	1523. POSTURE PALS (MEDICINE - Hygiene)	AVIS //	1544. PREVENTING THE SPREAD OF DISEASE (MEDICINE - Sanitation)	ICS //
1483. PHYSICAL MEDICINE SERVICE (MEDICINE - Physical)	USArmy-P **	1504. PLASTICS (CHEMISTRY)	YAF	1524. POWDER METALLURGY (PARTS I, II) (GEOLOGY - Metallurgy)	OE	1545. PRIMARY CELL (PHYSICS - Electricity)	EBF * //
1484. PHYSICAL REHABILITATION (MEDICINE - Rehabilitation)	Filmo * TV	1505. PNEUMONECTOMY (MEDICINE - Surgery)	DG **	1525. POWER (PHYSICS)	J&H	1546. PRIMARY DYSENTERIA (MEDICINE - Gynecology)	SEARLE **
1485. THE PHYSIOLOGY OF NORMAL MENSTRUATION (MEDICINE - Physiology)	SCHER ** //	1506. PNEUMONIA (MEDICINE - Communicable Diseases)	EBF *	1526. POWER BY WHICH WE LIVE (PHYSICS)	GE **	1547. PRIMARY HYPERPARATHYROIDISM DUE TO PARATHYROID ADENOMA (MEDICINE - Surgery)	DG **
1486. PICTORIAL SKETCHING (ENGINEERING)	McG-H TV	1507. POLE DRAINAGE (MEDICINE - Sanitation)	CDC **	1527. POWER OF PLANTS (BOTANY)	Almanac	1548. PRINCIPLE OF MOMENTS (ENGINEERING)	OE
1487. PINOCYTOSIS - DRINKING BY CELLS (MEDICINE - Pathology)	WISTAR	1508. POLIOMYELITIS IN MONKEYS AND RODENTS (MEDICINE - Communicable Diseases)	COLUM	1528. POWER UNLIMITED (PHYSICS - Electricity)	Handel TV	1549. PRINCIPLES OF FRACTURE REDUCTION (MEDICINE - Surgery)	VETS-CHU-WEX **
1488. PINTA (PMF-5071) (MEDICINE - Tropical)	USArmy-P **	1509. POLYGONS (MATHEMATICS - Geometry)	X9 //	1529. THE PRAYING MANTIS (ZOOLOGY)	HFE	1550. PRINCIPLES OF DEVELOPMENT (MEDICINE - Pathology)	McG-H
1489. A PIPELINE LICKS THE WEATHER (ENGINEERING)	SoCalG	1510. POLYPS OF THE LARGE INTESTINE (MEDICINE - Pathology)	DG **	1530. PRECANCER DIAGNOSIS OF CERVIX BY CYTOLOGY (MEDICINE - Pathology)	CI-Ad	1551. PRINCIPLES OF ELECTRICITY (PHYSICS - Electricity)	GE **
1490. PIPELINE TO THE CLOUDS (MEDICINE - Sanitation)	GE **	1511. POND INSECTS (BIOLOGY)	EBF *	1531. PREFACE TO A LIFE (MEDICINE - Psychiatry)	USPHS **	1552. PRINCIPLES OF GEARING: AN INTRODUCTION (ENGINEERING)	OE /
1491. PIPES IN THE HOUSE (ENGINEERING)	CHU-WEX	1512. POND LIFE (BIOLOGY)	EBF *	1532. PREFACE TO CHEMISTRY (CHEMISTRY)	EBF *	1553. PRINCIPLES OF LUBRICATION (ENGINEERING)	OE /
1492. PIPEVINE SWALLOWTAIL BUTTERFLY (ZOOLOGY)	Insif	1513. PORCELAIN JACKET CROWN TECHNIQUE (DENTISTRY)	COM-BS **	1533. PREFACE TO PHYSICS (PHYSICS)	EBF * MS	1554. PRINCIPLES OF PENICILLIN THERAPY (MEDICINE - Preventive)	SQUIBB **
1493. PLAGUE (MEDICINE - Communicable Diseases)	usfc	1514. PORTACAVAL SHUNT (MEDICINE - Surgery)	DG **	1534. PREFRONTAL LOBOTOMY FOR AGITATIVE - DEPRESSIVE STATE (MEDICINE - Surgery)	DG **	1555. THE PRINCIPLES OF REFRIGERATION (PHYSICS)	KB
1494. PLAGUE CONTROL (MM-4049) (MEDICINE - Communicable Diseases)	USNavy-WF **	1515. POSITION FINDING ON THE EARTH (GEOGRAPHY - Navigation)	USAF-WF **	1535. PREHISTORIC TIMES: THE WORLD BEFORE MAN (GEOLOGY)	CORONET *	1556. PRINCIPLES OF SCALE DRAWING (ENGINEERING)	CORONET *
1495. PLANES WITHOUT PILOTS (PHYSICS)	BELL-AIR **	1516. A POSITIVE APPROACH TO THE PSYCHIATRIC PATIENT (MEDICINE - Psychiatry)	VETS-WF **	1536. PRENATAL CARE (MEDICINE - Obstetrics)	Medicap *	1557. PRINCIPLES OF REFRIGERATION (PHYSICS)	OE
1496. PLANNING FOR SUCCESS (MEDICINE - Psychology)	CORONET * MS TV	1517. POSTURAL CARE (MEDICINE - Obstetrics)	Medicap *	1537. THE PREPARATION AND INSERTION OF TANTALUM PLATE (MEDICINE - Surgery)	USArmy-P	1558. THE PRINCIPLE OF THE GENERATOR (PHYSICS)	YAF
1497. PLANT GROWTH (BOTANY)	EBF * //	1518. POSTOPERATIVE DISTURBANCES OF VISUALLY CONTROLLED BEHAVIOR IN THE CAT FOLLOWING COMPLETE BILATERAL REMOVAL OF THE VISUAL CORTEX (MEDICINE - Psychology)	PSU-PCR	1538. PREPARATION AND STAINING OF BLOOD FILMS (MEDICINE - Lab. Procedures)	CDC-WF **	1559. PROBLEM AT PORT WASHINGTON (ENGINEERING)	USA-Eng **
1498. PLANT GROWTH AND MUTATION IN TRADESANTIA VIRGINICA (SPIDERWORT) (BOTANY)	Phase-Lt *	1519. POSTURAL ADJUSTMENTS OF THE INFANT (MEDICINE - Psychology)	IntFB	1539. PREPARATION OF THE MOUTH FOR DENTURES (DENTISTRY)	UNH	1560. PROBLEM CHILDREN (MEDICINE - Psychology)	OHIO //
1499. PLANT ODONITIES (BOTANY)	IntFB **			1540. PRESCRIPTION FOR WORK (MEDICINE - Rehabilitation)	VETS **	1561. PROBLEM DRINKERS (MEDICINE - Psychology)	McG-H
						1562. PROBLEM OF PUPIL ADJUSTMENT (PARTS I AND II) (MEDICINE - Psychology)	McG-H /

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1563. PROBLEMS IN THE TREATMENT OF POLIOMYELITIS (MEDICINE - Nursing)	UMINN	1583. PSYCHOSOMATICS OF EXPERIMENTAL DRUG DISSOCIATION (MEDICINE - Psychology)	PSU-PCR	1601. RADICAL GROIN DISSECTION: MALIGNANT MELANOMA (MEDICINE - Surgery)	BURKE	1618. RADIOISOTOPES--THEIR APPLICATION TO HUMANS--(AS TRACER STUDIES AND FOR THERAPEUTIC USE) (MEDICINE - Atomic)	MFGuild
1564. PROBLEMS OF FLIGHT (PHYSICS)	EBF *	1584. PURDUE EYE CAMERA (MEDICINE - Psychology)	PSU-PCR	1602. RADICAL NECK DISSECTION FOR CARCINOMA (MEDICINE - Surgery)	DG **	1619. RADIOTHERAPY: HIGH DOSAGE TREATMENT (MEDICINE - Nursing)	OE
1565. PROBLEMS OF RHEUMATOID ARTHRITIS (MEDICINE - Internal)	ARF **	1585. PURIFICATION OF WATER (TF B-117a) (MEDICINE - Sanitation)	USArmy-UWF	1603. RADICAL OPERATION FOR CANCER OF THE CERVIX (KERTHEIM'S OPERATION) (MEDICINE - Surgery)	DG **	1620. RAT ECTOPARASITE CONTROL (MEDICINE - Sanitation)	CDC-UWF **
1566. PROBLEM-SOLVING IN INFANTS (MEDICINE - Psychology)	IntFB	1586. PURPOSEFUL SPLINTING (MEDICINE - Surgery)	DG **	1604. RADICAL OPERATION FOR CARCINOMA OF THE CERVIX (MEDICINE - Surgery)	Kelso **	1621. RAT KILLING (MEDICINE - Sanitation)	CDC-UWF **
1567. PROBLEM-SOLVING IN MONKEYS (MEDICINE - Psychology)	IntFB	1587. PYLOROMYOTOMY FOR INFANTILE PYLORIC STENOSIS (MEDICINE - Surgery)	Sturg	1605. RADICAL ORCHIDECTOMY (PMP-502) (MEDICINE - Surgery)	USArmy-p **	1622. THE RAT PROBLEM (TF B-1669-70-71-72) (MEDICINE - Sanitation)	USArmy-P-UWF **
1568. THE PROCRUSTINATOR (MEDICINE - Psychology)	YAF	1588. PYTHAGOREAN THEOREM (MATHEMATICS - Geometry)	KB	1606. RADICAL PELVIC EVISCERATION AND BILATERAL GROIN DISSECTION FOR PELVIC CANCER (MEDICINE - Surgery)	PACK	1623. THE RAT PROBLEM (H 37 [a]) (MEDICINE - Sanitation)	CDC-UWF **
1569. PROESTROUS AND OESTROUS BEHAVIOR IN THE GUINEA PIG (MEDICINE - Physiology)	WISTAR	1589. QUADRILATERALS (MATHEMATICS - Geometry)	KB	1607. RADICAL RESECTION OF THE MAXILLA AND ORBIT WITH EARLY PROSTHETIC RESTORATION (MEDICINE - Surgery)	VETS **	1624. RATPROOFING (MEDICINE - Sanitation)	CDC-UWF **
1570. PROGRESSIVE HEPATOLENTICULAR DEGENERATION (MEDICINE - Psychiatry)	SPGood	1590. QUADRUPLE LIGATION AND EXCISION OF FISTULA OF FEMORAL VESSELS (PMP-502) (MEDICINE - Surgery)	USArmy-P **	1608. RADICAL SURGERY FOR ADVANCED LUNG CANCER (MEDICINE - Surgery)	Sturg	1625. RATIO A PROPORTION (MATHEMATICS - Arithmetic)	KB //
1571. PROGRESSIVE WAVES: TRANSVERSE AND LONGITUDINAL (PHYSICS)	MCG-H TV	1591. QUANTITATIVE TESTS USED IN THE DIAGNOSIS OF ARTERIAL DISEASE IN THE PERIPHERAL VASCULAR CLINIC OF THE HOSPITAL OF THE UNIV. OF PENNSYLVANIA (MEDICINE - Hematology)	EBRF **	1609. RADIO ANTENNAS: CREATION AND BEHAVIOR OF RADIO WAVES (PHYSICS)	USAF-UWF **	1626. REACHING PREHENSILE BEHAVIOR OF THE HUMAN INFANT (MEDICINE - Psychology)	IntFB
1572. PRONESTYL: HYDROCHLORIDE (MEDICINE - Internal)	SQUIBB **	1592. THE QUESTION MIND (PHYSICS)	GenM **	1610. RADIO ANTENNAS: FUNDAMENTALS OF THE ANTENNA (PHYSICS)	USAF **	1627. REACTIONS IN PLANTS AND ANIMALS (BIOLOGY)	EBF * //
1573. PROPERTIES OF TRIANGLES (MATHEMATICS - Geometry)	KB	1593. A QUESTION IN TIME (MEDICINE - Pathology)	ACS **	1611. RADIO RECEIVERS: PRINCIPLES OF RADIO RECEIVERS (PHYSICS)	USAF-UWF **	1628. REACTIONS OF THE INFANT TO PINPRICK (MEDICINE - Psychology)	IntFB
1574. PROPERTIES OF WATER (PHYSICS)	CORONET *	1594. QUICKLY A WINK (PHYSICS)	TFC-MGN *	1612. RADIO TRANSMITTERS: PRINCIPLES AND TYPICAL CIRCUITS (PHYSICS)	USAF **	1629. READING MAPS (GEOGRAPHY - Maps)	EBF * MS
1575. PROSTHESIS: OCULAR REPLACEMENT (H-43918) (MEDICINE - Rehabilitation)	USArmy-UWF	1595. RABIES (MEDICINE - Veterinary)	EBF *	1613. RADIOACTIVITY: LABORATORY DEMONSTRATIONS (PMP-5110) (MEDICINE - Lab. Procedures)	USArmy-p **	1630. REALM OF THE HONEYBEE (ZOOLOGY)	USDA
1576. PROTECT YOUR BIRDS (ZOOLOGY)	IdFilms-WH	1596. RABIES CAN BE CONTROLLED (MEDICINE - Veterinary)	ACC-Leder	1614. RADIOIODINE: INTRA-ORAL TECHNIQUE (DENTISTRY)	IO	1631. REARING AND HANDLING OF ANOPHELES MOSQUITOES (MEDICINE - Sanitation)	CDC **
1577. PROTECTING A GREAT CITY (ENGINEERING)	USA-Eng **	1597. THE RABBITS AND FROGS (MEDICINE - Veterinary)	IMPCO *	1615. RADIO-FREQUENCY HEATING (PHYSICS)	WestH **	1632. REASONS FOR THE SEASONS (SCIENCE - Misc.)	WInmoI
1578. PROTOPLASM, THE BEGINNING OF LIFE (BIOLOGY)	BRAY	1598. RACCOON'S PICNIC (ZOOLOGY)	EBF * MS	1616. RADIOISOTOPE (PMP-5145A, 5145B, 5145C, 5145F, 5147B, 5147C) (PHYSICS - Nuclear)	USArmy-p **	1633. RECEIVING RADIO MESSAGES (PHYSICS)	EBF * //
1579. PROTOZOA, ONE-CELLED ANIMALS (BIOLOGY)	EBF *	1599. RADIAL NERVE INJURY IN MID-ARM (PMP-5079) (MEDICINE - Surgery)	USArmy-P **	1617. THE RADIOISOTOPE: METHODOLOGY (PMP 5145D) (PHYSICS - Nuclear)	USArmy-P-UWF **	1634. RECENT MODIFICATIONS OF CONVULSIVE SHOCK THERAPY (MEDICINE - Psychology)	PSU-PCR
1580. PSYCHOGENIC DISEASES IN INFANCY: AN ATTEMPT AT THEIR CLASSIFICATION (MEDICINE - Psychology)	SPITZ	1600. RADIATION - SILENT SERVANT OF MARKING (PHYSICS - Nuclear)	Handel TV			1635. RECONSTRUCTION OF NOSE (MEDICINE - Surgery)	DG **
1581. PSYCHONEUROSES (MEDICINE - Psychiatry)	SPGood					1636. RECONSTRUCTION OF THE ESOPHAGUS BY JEJUNAL TRANSPLANT (MEDICINE - Surgery)	DG **
1582. A PSYCHONEUROSIS WITH COMPULSIVE TRENDS IN THE MAKING (MEDICINE - Psychiatry)	Fries-Woolf					1637. RECONSTRUCTION OF THE FLOOR OF THE ORBIT (MEDICINE - Surgery)	DG **

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1563. PROBLEMS IN THE TREATMENT OF POLYOMYELITIS (MEDICINE - Nursing)	UMINN	1583. PSYCHOSOMATICS OF EXPERIMENTAL DRUG DISSOCIATION (MEDICINE - Psychology)	PSU-PCP	1601. RADICAL GROIN DISSECTION: MALIGNANT MELANOMA (MEDICINE - Surgery)	BURKE	1618. RADIOISOTOPES--THEIR APPLICATION TO HUMANS-- (AS TRACER STUDIES AND FOR THERAPEUTIC USE) (MEDICINE - Atomic)	MF Guild
1564. PROBLEMS OF FLIGHT (PHYSICS)	EBF *	1584. PURDUE EYE CAMERA (MEDICINE - Psychology)	PSU-PCR	1602. RADICAL NECK DISSECTION FOR CARCINOMA (MEDICINE - Surgery)	DG **	1619. RADIOTHERAPY: HIGH DOSAGE TREATMENT (MEDICINE - nursing)	OE /
1565. PROBLEMS OF RHEUMATOID ARTHRITIS (MEDICINE - Internal)	ARF **	1585. PURIFICATION OF WATER (TF 8-1174) (MEDICINE - Sanitation)	USArmy-UWF **	1603. RADICAL OPERATION FOR CANCER OF THE CERVIX (WERTHEIM'S OPERATION) (MEDICINE - Surgery)	DG **	1620. RAT ECTOPARASITE CONTROL (MEDICINE - Sanitation)	CDC-UWF **
1566. PROBLEM-SOLVING IN INFANTS (MEDICINE - Psychology)	IntFB	1586. PURPOSEFUL SPLINTING (MEDICINE - Surgery)	DG **	1604. RADICAL OPERATION FOR CARCINOMA OF THE CERVIX (MEDICINE - Surgery)	Kelso **	1621. RAT KILLING (MEDICINE - Sanitation)	CDC-UWF **
1567. PROBLEM-SOLVING IN MONKEYS (MEDICINE - Psychology)	IntFB	1587. PYLOROMOTOMY FOR INFANTILE PYLORIC STENOSIS (MEDICINE - Surgery)	Sturg	1605. RADICAL ORCHIDECTOMY (PWF-5032) (MEDICINE - Surgery)	USArmy-P **	1622. THE RAT PROBLEM (TF 8-1669-70-71-72) (MEDICINE - Sanitation)	USArmy-P-UWF **
1568. THE PROCASTINATOR (MEDICINE - Psychology)	YAF	1588. PYTHAGOREAN THEOREM (MATHEMATICS - Geometry)	KB	1606. RADICAL PELVIC EVISCERATION AND BILATERAL GROIN DISSECTION FOR PELVIC CANCER (MEDICINE - Surgery)	PACK	1623. THE RAT PROBLEM (M 97 1-a) (MEDICINE - Sanitation)	CDC-UWF **
1569. PROESTROUS AND DESTROUS BEHAVIOR IN THE GUINEA PIG (MEDICINE - Physiology)	WISTAR	- Q -		1607. RADICAL RESECTION OF THE MAXILLA AND ORBIT WITH EARLY PROSTHETIC RESTORATION (MEDICINE - Surgery)	VETS **	1624. RATPROOFING (MEDICINE - Sanitation)	CDC-UWF **
1570. PROGRESSIVE HEPATOGENIC TUBERCULOSIS (MEDICINE - Psychiatry)	SPGood	1589. QUADRILATERALS (MATHEMATICS - Geometry)	KB	1608. RADICAL SURGERY FOR ADVANCED LUNG CANCER (MEDICINE - Surgery)	Sturg	1625. RATIO & PROPORTION (MATHEMATICS - Arithmetic)	KB //
1571. PROGRESSIVE WAVES: TRANSVERSE AND LONGITUDINAL (PHYSICS)	MCG-H TV	1590. QUADRUPLE LIGATION AND EXCISION OF FISTULA OF FEMORAL VESSELS (PWF-5082) (MEDICINE - Surgery)	USArmy-P **	1609. RADIO ANTENNAS: CREATION AND BEHAVIOR OF RADIO WAVES (PHYSICS)	USAF-UWF **	1626. REACHING PREHENSILE BEHAVIOR OF THE HUMAN INFANT (MEDICINE - Psychology)	IntFB
1572. PROKESTIVE HYDROCHLORIDE (MEDICINE - Internal)	SQUIBB **	1591. QUANTITATIVE TESTS USED IN THE DIAGNOSIS OF ARTERIAL DISEASE IN THE PERIPHERAL VASCULAR CLINIC OF THE HOSPITAL OF THE UNIV. OF PENNSYLVANIA (MEDICINE - Hematology)	EBRF **	1610. RADIO ANTENNAS: FUNDAMENTALS OF THE ANTENNA (PHYSICS)	USAF **	1627. REACTIONS IN PLANTS AND ANIMALS (BIOLOGY)	EBF * //
1573. PROPERTIES OF TRIANGLES (MATHEMATICS - Geometry)	KB //	1592. THE QUESTING MIND (PHYSICS)	GenM **	1611. RADIO RECEIVERS: PRINCIPLES OF RADIO RECEIVERS (PHYSICS)	USAF-UWF **	1628. REACTIONS OF THE INFANT TO PAIN (MEDICINE - Psychology)	IntFB
1574. PROPERTIES OF WATER (PHYSICS)	CORONET *	1593. A QUESTION IN TIME (MEDICINE - Pathology)	ACS **	1612. RADIO TRANSMITTERS: PRINCIPLES AND TYPICAL CIRCUITS (PHYSICS)	USAF **	1629. READING MAPS (GEOGRAPHY - Maps)	EBF *, MS //
1575. PROSTHESIS: OCULAR REPLACEMENT (M-3918) (MEDICINE - Rehabilitation)	USNavy-UWF **	1594. QUICKERIN A WINK (PHYSICS)	TFC-MGH *	1613. RADIOACTIVITY: LABORATORY DEMONSTRATIONS (PWF-5110) (MEDICINE - Lab. Procedures)	USArmy-P **	1630. REALM OF THE HONEYBEE (ZOOLOGY)	USDA
1576. PROTECT YOUR BIRDS (ZOOLOGY)	LibFilms-MH	- R -		1614. RADIOIODINES: INTRA-ORAL TECHNIQUE (DENTISTRY)	IO	1631. REARING AND HANDLING OF MOSQUITOES (MEDICINE - Sanitation)	CDC **
1577. PROTECTING A GREAT CITY (ENGINEERING)	USA-Eng **	1595. RABIES (MEDICINE - Veterinary)	EBF *	1615. RADIO-FREQUENCY HEATING (PHYSICS)	Westh **	1632. REASONS FOR THE SEASONS (SCIENCE - Misc.)	WinMol
1578. PROTOPLASM, THE BEGINNING OF LIFE (BIOLOGY)	BRAY	1596. RABIES CAN BE CONTROLLED (MEDICINE - Veterinary)	ACC-Leder **	1616. RADIOISOTOPES (PWF-5145A, 5145B, 5145C, 5145F, 5147B, 5147C) (PHYSICS - Nuclear)	USArmy-P **	1633. RECEIVING RADIO MESSAGES (PHYSICS)	EBF * //
1579. PROTOZOA, ONE-CELLED ANIMALS (BIOLOGY)	EBF *	1597. THE RABBITS AND FROGS (MEDICINE - Psychology)	IMPCO *	1617. THE RADIOISOTOPE: METHODOLOGY (PWF 5145D) (PHYSICS - Nuclear)	USArmy-P-UWF **	1634. RECENT MODIFICATIONS OF CONVULSIVE SHOCK THERAPY (MEDICINE - Psychology)	PSU-PCR
1580. PSYCHOGENIC DISEASES IN INFANCY: AN ATTEMPT AT THEIR CLASSIFICATION (MEDICINE - Psychology)	SPITZ	1598. RACON'S PICNIC (ZOOLOGY)	EBF * MS			1635. RECONSTRUCTION OF NOSE (MEDICINE - Surgery)	DG **
1581. PSYCHONEUROSES (MEDICINE - Psychiatry)	SPGood	1599. RADIAL NERVE INJURY IN MID-ARM (PWF-5079) (MEDICINE - Surgery)	USArmy-P **			1636. RECONSTRUCTION OF THE ESOPHAGUS BY JEJUNAL TRANSPLANT (MEDICINE - Surgery)	DG **
1582. A PSYCHONEUROSIS WITH COMPULSIVE TRENDS IN THE MAKING (MEDICINE - Psychiatry)	Fries-Woolf	1600. RADIATION - SILENT SERVANT OF MANKIND (PHYSICS - Nuclear)	Handel TV			1637. RECONSTRUCTION OF THE FLOOR OF THE ORBIT (MEDICINE - Surgery)	DG **

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1688. RECONSTRUCTION OF THE LOWER LIP AND JAW (MEDICINE - Surgery)	USArny-p **	1686. REPAIR OF A POST OPERATIVE VENTRAL HERNIA WITH SURGALLOY STAINLESS STEEL MESH (MEDICINE - Surgery)	DG **	1676. RESECTION OF THE UPPER POLE OF A DOUBLE KIDNEY (MEDICINE - Surgery)	DG	1695. THE RIDDLE OF PHOTOSYNTHESIS (BIOLOGY)	Handel TV
1689. RECOVERY (MEDICINE - Rehabilitation)	USArny	1687. REPAIR OF BLADDER HERNIA (MEDICINE - Surgery)	Jason **	1677. RESECTION OF VAGUS NERVES--TRANSSTHORACIC APPROACH (MEDICINE - Surgery)	Sturg	1696. RIDING THE FILM (PHYSICS)	JamH
1690. RECREATIONAL AND OCCUPATIONAL THERAPY (MEDICINE - Rehabilitation)	DE	1688. REPAIR OF BURN CONTRACTURE OF NECK (MEDICINE - Surgery)	DG **	1678. RESISTIVE EXERCISES IN PHYSICAL THERAPY FOR THORACOPASTY (MEDICINE - Physical)	VETS-UNF **	1697. RIGHT ON THE NOSE (MEDICINE - Ophthalmology)	AND
1691. REDUCTION OF SUPRACONJUGATE JUMP BY BARIUM SULFATE (MEDICINE - Surgery)	KB	1689. REPAIR OF FALSE ARTERIAL ANEURYSM (PMF-5000) (MEDICINE - Surgery)	USArny-p **	1679. RESPECT FOR PROPERTY (MEDICINE - Psychology)	CORONET *	1698. RIGHT PNEUMONECTOMY (MEDICINE - Surgery)	DG **
1692. THE RED-WINGED BLACKBIRD (ZOOLOGY)	CORONET *	1690. REPAIR OF INGUINAL HERNIA (MEDICINE - Surgery)	Win-Sta **	1680. RESPIRATORY REFLEXES DEMONSTRATED IN THE RABBIT (PMF-5112) (MEDICINE - Physiology)	USArny-p **	1699. RIGHT SUPERNUMERARY KIDNEY--REMOVAL THROUGH TRANSVERSE ABDOMINAL INCISION (MEDICINE - Surgery)	BURKE
1693. REFLEX BEHAVIOR OF THE NEWBORN INFANT (MEDICINE - Psychology)	InstF	1691. REPAIR OF MEDIAN NERVE (MEDICINE - Surgery)	BURKE	1681. RESPONSIBILITY (MEDICINE - Psychology)	YAF	1700. THE RIGHT TO HEAR (MEDICINE - Rehabilitation)	IO
1694. REFLEXES (MEDICINE - Neurology)	COLUM	1692. REPAIR OF RECTO-URETHRAL FISTULA (PMF-5068) (MEDICINE - Surgery)	USArny-p **	1682. REST AND HEALTH (MEDICINE - Hygiene)	CORONET *	1701. PIKWI, THE BABY MONKEY (ZOOLOGY)	EBF * //
1695. REGIONAL ANAESTHESIA (MEDICINE - Anesthesiology)	Win-Sta **	1693. REPAIR OF RUPTURED VOMBANOUS URETHRA (PMF-5022) (MEDICINE - Surgery)	USArny-p **	1683. REST THAT BUILDS GOOD HEALTH (BIOLOGY)	CORONET *	1702. RINDERPEST (MEDICINE - Veterinary)	USDA TV
1696. REGIONAL FLEETIS: TREATMENT BY RESECTION AND PRIMARY ANASTOMOSIS BETWEEN THE ILEUM AND THE ASCENDING COLON (MEDICINE - Surgery)	DG **	1694. REPAIR TO SKULL DEFECTS WITH TITANIUM PLATES (PMF-5068) (MEDICINE - Surgery)	USArny-p **	1684. RESTORING THE AUTOPSIED BODY (MEDICINE - Autopsy)	IO	1703. RIVER OF GOLD (ENGINEERING)	USA-Eng **
1697. REHABILITATION FOR PARKINSON'S SYNDROME (MEDICINE - Neurology)	WGBuild	1695. REPORT ON DONALD (MEDICINE - Psychology)	UMINN	1685. RETINAL DETACHMENT (MEDICINE - Ophthalmology)	OPHTH-F **	1704. RIVER OF ICE, THE STORY OF A GLACIER (GEOLOGY)	BAILEY
1698. REHABILITATION OF CHRONIC NEUROLOGICAL CASES (MEDICINE - Rehabilitation)	VETS **	1696. REPORT ON THE ATOM (PHYSICS - Nuclear)	MCG-H	1686. RETIRE TO LIFE (MEDICINE - Psychiatry)	UoFokla - InstF	1705. ROAD TEST ONE--MARYLAND (ENGINEERING)	COM-PR **
1699. REHABILITATION OF PATIENTS WITH CLEFTS OF LIP AND PALATE (MEDICINE - Rehabilitation)	IO	1697. REPORT ON THE LIVING (MEDICINE - Nursing)	USPHS **	1687. RETROPLACEMENT OF THE INFERIOR OBLIQUE AT THE SCERIAL INSERTION (MEDICINE - Ophthalmology)	OPHTH-F **	1706. ROAD TO HEALTH & HAPPINESS (MEDICINE - Hygiene)	KB
1700. REMOVAL OF AN IMPACTED MANDIBULAR THIRD MOLAR BY CONTROLLED SECTIONING (DENTISTRY)	USArny-p **	1698. REPORT TO THE PEOPLE (MEDICINE - Public Health)	DCSTL	1688. RETROPROBIC PROSTATECTOMY (MEDICINE - Surgery)	BURKE	1707. ROBIN REDBREAST (ZOOLOGY)	EBF * //
1701. REMOVAL OF IMPACTED TEETH (DENTISTRY)	UMINN	1699. REPRODUCTION AMONG MAMMALS (ZOOLOGY)	EBF * //	1689. REVASCULARIZATION OF THE HEART (MEDICINE - Surgery)	CSBeck **	1708. ROCKS AND MINERALS (GEOLOGY)	FaotC
1702. REMOVAL OF INTRATHORACIC FOCAL BODIES (MEDICINE - Otorhinolaryngology)	USArny-p **	1700. REPTILES ARE INTERESTING (ZOOLOGY)	EBF * MS	1690. THE RH FACTOR AND BLOOD TESTING PROCEDURES (MEDICINE - Hematology)	ORTHO **	1709. ROONEY (MEDICINE - Preventive)	NatDA ** //
1703. REMOVAL OF LOWER LUMBAR INTERVERTEBRAL DISCS (MEDICINE - Surgery)	PHN **	1701. RESEARCH: PATTERN FOR PROGRESS (GEOLOGY)	CALTEX	1691. RHEUMATOID ARTHRITIS OF SPINE (MEDICINE - Pathology)	USArny-p **	1710. THE ROLE OF CARBON DIOXIDE IN CONVULSIONS DURING ANESTHESIA (MEDICINE - Anesthesiology)	AMA
1704. REMOVAL OF MAGNETIC FOREIGN BODIES FROM THE EYE (MEDICINE - Ophthalmology)	USArny-p **	1702. RESECTION OF A CONGENITAL DIVERTICULUM OF THE LEFT VENTRICLE (MEDICINE - Surgery)	Potts-DeBoer *	1692. RHYTHM ON THE REEF (ZOOLOGY)	UniverPic	1711. ROLE-PLAYING IN GUIDANCE (MEDICINE - Psychiatry)	UoF
		1703. RESECTION OF A CONGENITAL DIVERTICULUM OF THE LEFT VENTRICLE (MEDICINE - Surgery)	VETS **	1693. RHYTHMIC EXERCISES (MEDICINE - Physical Exercises)	InstF	1712. POLLED EARTH DAMS (ENGINEERING)	USA-Eng **
		1704. RESECTION OF HANDBLUE FOR ANEUBLASTOMA (MEDICINE - Surgery)	DG **	1694. RICKETTSIA--LABORATORY PROCEDURE FOR THEIR ISOLATION AND IDENTIFICATION (PMF-5114) (MEDICINE - Pathology)	USArny-p **	1713. THE ROMANCE OF RADIUM (PHYSICS)	TFC-MGM *
		1705. RESECTION OF RIGHT COLON FOR CARCINOMA (MEDICINE - Surgery)				1714. ROOT RESECTION (DENTISTRY)	SciF
						1715. ROOTS OF PLANTS (BOTANY)	EBF * //
						1716. ROUTINE ADMISSION CHEST X-RAY IN GENERAL HOSPITALS (MEDICINE - Hospitals)	USPHS **

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1717. ROUTINE EXAMINATION OF EXTRA OCULAR MOTILITY (MEDICINE - ophthalmology)	OPHTH-F **	1731. SAMPLING RAW MILK (MEDICINE - Sanitation)	CDC-UWF **	1753. THE SEARCH: UNIVERSITY OF CHICAGO (WEATHER RESEARCH) (PHYSICS - Meteorology)	YAF	1776. SENDING RADIO MESSAGES (PHYSICS)	EBF * //
1718. THE RUBY-THROATED HUMMINGBIRD (ZOOLOGY)	CORONET *	1732. SANCTUARY OF THE SEALS (ZOOLOGY)	TFC-20th CentFox *	1754. SEARCH (MEDICINE - Psychology)	WCCA	1777. SERIES AND PARALLEL CIRCUITS (PHYSICS - Electricity)	EBF * / //
1719. RUPTURES OF THE ROTATOR CUFF (MEDICINE - Surgery)	DG **	1733. SANDFLY CONTROL (MEDICINE - Parasitology)	USArmy-UWF **	1755. THE SEASHORE (ZOOLOGY)	BARR TV	1778. SEROLOGICAL TECHNIQUE: VENIPUNCTURE (MEDICINE - Lab. Procedures)	USNavy-UWF **
1720. RX ATTITUDE (MEDICINE - Psychiatry)	VETS **	1734. SANITARY LAND FILLS (MEDICINE - Sanitation)	ICA(11AA) //	1756. SEASHORE LIFE (ZOOLOGY)	EBF *	1779. THE SETTING OF ENDEMIC SCHISTOSOMIASIS IN PUERTO RICO (MEDICINE - Communicable Diseases)	CDC **
1721. RX, THE STORY BEHIND YOUR DOCTOR'S PRESCRIPTION (MEDICINE - Internal)	SQU18B **	1735. THE SANITARY MARKET (MEDICINE - Sanitation)	CDC-UWF **	1757. SEASHORE WONDERLAND (ZOOLOGY)	HOLST	1780. SEVEN LITTLE DUCKS (ZOOLOGY)	BAILEY
- S -		1736. SANITARY STORAGE AND COLLECTION OF REFUSE (MEDICINE - Sanitation)	CDC-UWF **	1758. SEASONAL CHANGES IN TREES (BOTANY)	CORONET *	1781. SEWAGE DISPOSAL (MEDICINE - Sanitation)	EBF *
1722. SAFE DRINKING WATER FROM SMALL WATER SUPPLIES (MEDICINE - Sanitation)	UMINN	1737. SANITATION TECHNIQUES IN BAT CONTROL (MEDICINE - Sanitation)	CDC-UWF **	1759. THE SEASONS (ASTRONOMY)	TFC *	1782. SEWAGE TREATMENT (MEDICINE - Sanitation)	CDC **
1723. SAFE TUBERCULOSIS NURSING (MEDICINE - Nursing)	VETS-UWF **	1738. SAVE THOSE TEETH (MEDICINE - Hygiene)	EBF * /	1760. THE SEASONS OF THE YEAR (SCIENCE - Misc.)	CORONET *	1783. SHACKLES FOR THE GIANT (ENGINEERING)	USA-Eng **
1724. SAFER GASTRECTOMY (MEDICINE - Surgery)	BURKE	1739. SCALEXOTOMY (MEDICINE - Surgery)	DG **	1761. SECOND SIGHT (MEDICINE - Rehabilitation)	RKO	1784. SHADES OF GRAY (MEDICINE - Psychiatry)	USArmy-UWF
1725. SAFETY IN THE CHEMISTRY LABORATORY (MEDICINE - Lab. Procedures)	IND	1740. SCARLET FEVER (MEDICINE - Communicable Diseases)	ACC-Leder **	1762. SECONDS COUNT (MEDICINE - First Aid)	AETNA	1785. SHAPE AND MOTILITY OF "BACTERIA" (Bacteriology)	SAB *
1726. SAUPLANE (PHYSICS)	InstF	1741. SCHISTOSOMA HAEMATOBIIUM (MEDICINE - Bacteriology)	SAB *	1763. SECRET OF THE FJORD (GEOLOGY)	TFC-20th CentFox *	1786. SHAPING THE PERSONALITY: THE ROLE OF MOTHER-CHILD RELATIONS IN INFANCY (MEDICINE - Psychology)	SPITZ
1727. ST. FRANCIS CLOSURES 1945, ST. FRANCIS BASIN PROJECT, EMERGENCY LOOP REPAIR (ENGINEERING)	USA-Eng **	1742. SCHISTOSOMES IN THE PRIMARY HOST (MEDICINE - Parasitology)	CDC-UWF **	1764. SECTIONS AND CONVENTIONS (ENGINEERING)	McG-H	1787. SHE ALSO SERVES (MEDICINE - Nursing)	ICS
1728. SALAMANDERS AND THEIR YOUNG (BIOLOGY)	JO-R	1743. SCHISTOSOMIASIS (PHF 3027) (MEDICINE - Parasitology)	USArmy-P UWF **	1765. SEE BETTER: HEALTHY EYES (MEDICINE - Hygiene)	CORONET *	1788. SHELL MOUNDS IN THE TENNESSEE VALLEY (PALEONTOLOGY)	TVA
1729. SALT MINING OPERATION (GEOLOGY - Mining)	SALT **	1744. SCHISTOSOMIASIS-SNAIL FEVER (MEDICINE - Parasitology)	USArmy-P **	1766. SEE HOW THEY FLY (PHYSICS)	Pictura TV	1789. SHINING RAILS (PHYSICS)	GE **
1730. SALT WATER WONDERLAND (ZOOLOGY)	HL	1745. SCIENCE OF SOAP (CHEMISTRY)	EBF * //	1767. SEE HOW THEY SWIM (BIOLOGY)	Pictura TV	1790. SHIPS THAT SEE IN THE NIGHT (PHYSICS)	RCA
NOTE: See CODE letters on pages 337-369 for SOURCES from which these motion pictures may be obtained, and terms affecting availability and use indicated by the following symbols: Rental - * Related Strip - / Loan - ** Language version - // Television - TV Magnetic Striping - MS Absence of symbol customarily indicates availability by purchase only. Availability sometimes depends on special conditions stated with SOURCE information.		1746. SCIENTIFIC METHOD (SCIENCE - Misc.)	EBF * MS	1768. SEED DISPERSAL (BOTANY)	EBF * //	1791. SHIPWRECKS AND BARNACLES (ZOOLOGY)	MIAMI
		1747. SCOLIOSIS-METHOD OF CORRECTION AND FUSION (MEDICINE - Surgery)	Sturg	1769. SEEDS GROW INTO PLANTS (BOTANY)	CORONET * TV MS	1792. SHY GUY (MEDICINE - Psychology)	CORONET *
		1748. THE SEA (ZOOLOGY)	TFC *	1770. THE SEEING EYE (MEDICINE - Rehabilitation)	TFC-Warner *	1793. SIDE-TO-SIDE ANASTOMOSIS OF PORTAL VEIN TO VENA CAVA (MEDICINE - Surgery)	Sturg
		1749. SEA SHELL ANIMALS (ZOOLOGY)	FaotC	1771. SEEING THE UNSEEN (PHYSICS)	MIT	1794. SIGMOID, RECTUM AND ANAL CANAL ENDOSCOPIC VIEWS (MEDICINE - Pathology)	Garner
		1750. THE SEARCH: COLORADO SCHOOL OF MINES (URANIUM PROSPECTING) (GEOLOGY - Mining)	YAF	1772. SEGMENTAL PULMONARY RESECTION (MEDICINE - Surgery)	DG **	1795. SILICATE CEMENT (DENTISTRY)	CON-B5 **
		1751. THE SEARCH: FORDHAM UNIVERSITY EARTHQUAKE RESEARCH (GEOLOGY)	YAF	1773. SEIZURE: THE MEDICAL TREATMENT AND SOCIAL PROBLEMS OF EPILEPSY (MEDICINE - Rehabilitation)	VETS-UWF **		
		1752. THE SEARCH: MASSACHUSETTS INSTITUTE OF TECHNOLOGY (AUTOMATIC MACHINES) (ENGINEERING)	YAF	1774. SELECTION OF DIMENSIONS (ENGINEERING)	McG-H /		
				1775. SELF-CONSCIOUS GUY (MEDICINE - Psychology)	CORONET *		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1796. SIMILAR TRIANGLES (MATHEMATICS - Geometry)	KB //	1815. THE SMILES HAVE IT (DENTISTRY)	BR *	1836. SOLUTION OF ILLUSTRATIVE PROBLEMS IN CELESTIAL NAVIGATION (GEOGRAPHY - Navigation)	USAF-UWF **	1854. SPEECH TRAINING FOR THE HANDICAPPED CHILD (MEDICINE - Rehabilitation)	Uof111 **
1797. SIMPLE ANTERIOR CLOSURE OF COLOSTOMY (PHM-5070) (MEDICINE - Surgery)	USArmy-P **	1816. THE SMILING RESPONSE (MEDICINE - Psychology)	SPITZ	1837. SOMATIC CONSEQUENCES OF EMOTIONAL STARVATION IN INFANTS (MEDICINE - Psychiatry)	SPITZ	1855. THE SPEED OF LIGHT: MEASUREMENT AND APPLICATION (PHYSICS)	EBF * MS
1798. SIMPLE ANTERIOR CLOSURE OF TRANSVERSE COLOSTOMY (RIGHT SIDE) (PHM-5069) (MEDICINE - Surgery)	USArmy-P **	1817. SNAGGING AND CHANNEL MARKING FOR COMMERCIAL NAVIGATION OF THE MISSISSIPPI RIVER (ENGINEERING)	USA-Eng **	1838. SOMATIC ENDOCRINE TYPES (MEDICINE - Psychiatry)	SPGood	1856. SPERMATOZOA OF VERTEBRATES (BIOLOGY)	WISTAR
1799. SIMPLE CHANGES IN MATTER (PHYSICS)	CORONET *	1818. SNAGGING OPERATIONS ON THE WHITE RIVER, ARKANSAS (ENGINEERING)	USA-Eng **	1839. SOME BEHAVIOR CHARACTERISTICS OF A HUMAN AND A CHIMPANZEE INFANT IN THE SAME ENVIRONMENT (MEDICINE - Psychology)	PSU-PCR	1857. SPIDERS (ZOOLOGY)	EBF * //
1800. SIMPLE HARMONIC MOTION (PHYSICS)	MCG-H	1819. SNAKES (ZOOLOGY)	CORONET *	1840. SOME BIOCHEMICAL REACTIONS OF BACTERIA: THE OXIDASE TEST (MEDICINE - Psychology)	SAB *	1858. SPINAL FUSION WITH OSTEO-PERIOSTEAL GRAFT (MEDICINE - Surgery)	BURKE
1801. SIMPLE MACHINES (PHYSICS)	EBF * //	1820. SNAKES CAN BE INTERESTING (ZOOLOGY)	YAF	1841. SOME FROGS AND TOADS (ZOOLOGY)	IO-R	1859. SPINNING LEVERS (PHYSICS)	JamH
1802. SINGLE PASS PROCESSING METHOD-CEMENT (ENGINEERING)	P&H	1821. SNAKES-FRIENDS AND FOES (ZOOLOGY)	Misoc	1842. SOME GENERAL REACTIONS OF A HUMAN AND A CHIMPANZEE INFANT AFTER SIX MONTHS IN THE SAME ENVIRONMENT (MEDICINE - Psychology)	PSU-PCR	1860. THE SPINY ANT EATER (ZOOLOGY)	LibFilms-WH *
1803. THE SKELETON (MEDICINE - Anatomy)	EBF *	1822. SNAP OUT OF IT! EMOTIONAL BALANCE (MEDICINE - Psychology)	CORONET *	1843. SOUND (PHYSICS)	Edited	1861. SPLENECTOMY (MEDICINE - Surgery)	THOR **
1804. SKILLED ACTS (MEDICINE - neurology)	COLUM	1823. SNAPPING TURTLE (ZOOLOGY)	EBF *	1844. SOUND RECORDING AND REPRODUCTION (PHYSICS)	EBF * //	1862. SPLENECTOMY FOR CONGENITAL HEMOLYTIC ANEMIA (MEDICINE - Surgery)	DG **
1805. SKIN ANTISEPTICS: EVALUATION OF EFFECTIVENESS OF SOME WIDELY EMPLOYED ANTISEPTICS (MEDICINE - Bacteriology)	CIEB **	1824. THE SNEEZE (MEDICINE - Psychology)	MCG-H	1845. SOUND WAVES AND THEIR SOURCES (PHYSICS)	EBF * //	1863. SPLENECTOMY FOR GAUCHER'S DISEASE (MEDICINE - Surgery)	BURKE
1806. SKIN GRAFTING (MEDICINE - Surgery)	DG **	1825. SNIFFLES AND SNEEZES (MEDICINE - Communicable Diseases)	AVIS	1846. SOUNDS ALL ABOUT US (PHYSICS)	CORONET * TV	1864. SPLENECTOMY FOR SPLENO-MEGALY (MEDICINE - Surgery)	LaRue
1807. SKIN GRAFTING OF EXTENSIVE BURNS (MEDICINE - Surgery)	EATON //	1826. SOAPY, THE GERM FIGHTER (MEDICINE - Hygiene)	WEX **	1847. THE SOUNDS OF MUSIC (PHYSICS)	Edited	1865. SPLENECTOMY IN THE TREATMENT OF HYPERSPLENISM (MEDICINE - Surgery)	DG **
1808. THE SKY IS THE LIMIT (MEDICINE - Rehabilitation)	USArmy-P **	1827. SOCIAL ADJUSTMENT FOR THE APHASIC PATIENT (MEDICINE - Rehabilitation)	VETS-CHU-WEX **	1848. SOURCES OF ELECTRICITY (PHYSICS - Electricity)	DG **	1866. SPLENO-RENAL ANASTOMOSIS FOR PORTAL HYPERTENSION (MEDICINE - Surgery)	DG **
1809. SLEEP FOR HEALTH (MEDICINE - Hygiene)	EBF * //	1828. SOCIAL ADJUSTMENT OF THE BLINDED SOLDIER (PHM-5035) (MEDICINE - Rehabilitation)	USArmy-UWF	1849. SPAULDING-RICHARDSON COMPOSITE OPERATION FOR UTERINE PROLAPSE AND ALLIED CONDITIONS (MEDICINE - Surgery)	USArmy-UWF	1867. SPLENO-RENAL ANASTOMOSIS WITH AUTOLOGOUS VEIN GRAFT (MEDICINE - Surgery)	Sturg
1810. THE SLIDE RULE, PROPORTION, PERCENTAGE, SQUARES AND SQUARE ROOTS (ENGINEERING - THE SLIDE RULE - 354) (ENGINEERING)	OE	1829. SOCIAL DEVELOPMENT (MEDICINE - Psychology)	MCG-H	1850. SPEAKING OF MODELS (ENGINEERING)	USA-Eng **	1868. SPOROZOITES AND CERCARIAE OF SCHISTOSOMA MANSONI (MEDICINE - Parasitology)	CDC **
1811. THE SLIDE RULE: THE "C" AND "D" SCALES (ENGINEERING)	OE	1830. SOCIAL-SEX ATTITUDES IN ADOLESCENCE (MEDICINE - Psychology)	MCG-H	1851. SPECIAL PROBLEMS IN THE MANAGEMENT OF PEPTIC ULCER (MEDICINE - Pathology)	WYETH ** //	1869. SPOROTRICHUM GROWING ON AGAR SURFACE (MEDICINE - Bacteriology)	SAB *
1812. SLOW MOTION STUDIES OF COMBUSTION, KNOCK AND PRE-IGNITION (ENGINEERING)	ETHYL	1831. SOIL TESTS FOR EARTH CONSTRUCTION (ENGINEERING)	USA-Eng **	1852. USE OF WHOLE BLOOD, BLOOD PLASMA, AND CONCENTRATED SERUM ALBUMIN WITH SPECIAL REFERENCE TO SHOCK (MEDICINE - Neurology)	USnavy **	1870. SPRING BLOSSOMS (BOTANY)	IntFB
1813. SMALLPOX AND VACCINATION (MEDICINE - Immunology)	MYH	1832. SOLAR FAMILY (ASTRONOMY)	EBF * //	1853. SPEECH READING (TF 8-1706) (MEDICINE - Rehabilitation)	USArmy-P UWF **	1871. SPRING IS AN ADVENTURE (BIOLOGY)	CORONET *
1814. THE SMILE OF THE BABY (MEDICINE - Psychology)	SPITZ	1833. SOLAR PROMINENCES (ASTRONOMY)	UNICH			1872. SQUEAK, THE SQUIRREL (ZOOLOGY)	CHU-WEX
		1834. THE SOLAR SYSTEM (ASTRONOMY)	CORONET *			1873. STANDARD FLOOD-FIGHTING PRACTICES, 1948 (ENGINEERING)	USA-Eng **
		1835. SOLIDS, LIQUIDS, AND GASES (PHYSICS)	YAF			1874. STARS IN STRIPES (ZOOLOGY)	MCG-H

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1875. STARTING LINE (MEDICINE - Public Health)	CB **	1897. THE STOMACH (MEDICINE - Sanitation)	USArmy-P **	1914. SUBCUTANEOUS BLOOD FLOW IN THE BAT (MEDICINE - Physiology)	IND	1934. SUNRISE SERENADES (ZOOLOGY)	EBF *
1876. STATIONARY LONGITUDINAL WAVES (PHYSICS)	McG-H TV	1898. A STRAND BREAKS (BIOLOGY)	EBF * //	1915. SUBDIAPHRAGMATIC ABSCESS (MEDICINE - Surgery)	DG **	1935. THE SUN'S FAMILY (ASTRONOMY)	YAF
1877. STATIONARY TRANSVERSE WAVES (PHYSICS)	McG-H TV	1899. STRICTURE OF THE COMMON BILE DUCT: REPAIR WITH END-TO-END ANASTOMOSIS (MEDICINE - Surgery)	DG **	1916. SUBDURAL HEMATOMA (MEDICINE - Surgery)	DG **	1936. SUPERFICIAL KERATECTOMY (MEDICINE - Ophthalmology)	OPHTH-F
1878. STEPS OF AGE (MEDICINE - Psychology)	MHFB	1900. STRIKING BACK AGAINST RABIES (MEDICINE - Veterinary)	CDC-UMF **	1917. SUBTOTAL COLECTOMY AND ILEOSTOMY FOR ULCERATIVE COLITIS (MEDICINE - Surgery)	DG **	1937. SUPPORT OF PARALYZED FACE WITH FASCIA (MEDICINE - Surgery)	DG **
1879. STILL GOING PLACES: ACTIVE MANAGEMENT OF DISABILITY IN THE AGED (MEDICINE - Geriatrics)	PFIZER **	1901. STRUCTURAL UNITS, MATERIALS, AND LOADS FOR WHICH DESIGNED (ENGINEERING)	USAF-UMF **	1918. SUBTOTAL GASTRECTOMY (MEDICINE - Surgery)	DG **	1938. SUPPURATIVE PETROSITIS, MENINGEAL - SYMPTOMS, OPERATIONS AND RECOVERY (MEDICINE - Otorhinolaryngology)	DOHO
1880. A STORY OF A STORM (PHYSICS - Meteorology)	CORONET *	1902. THE STRUCTURE AND FUNCTION OF THE VESTIBULAR APPARATUS (MEDICINE - Physiology)	UofWash * TV	1919. SUBTOTAL GASTRECTOMY (NO. 547) (MEDICINE - Surgery)	DG **	1939. SUPRA-AORTIC ESOPHAGO-GASTROSTOMY FOR CARCINOMA OF THE MIDPORTION OF THE ESOPHAGUS (MEDICINE - Surgery)	THOR **
1881. STORY OF APPENDICITIS (MEDICINE - Surgery)	IO-R	1903. STUDIES IN BACTERIOLOGY. PART I: CLASSIFICATION (MEDICINE - Bacteriology)	CDC-UMF **	1920. SUBTOTAL GASTRECTOMY (CS-747) (MEDICINE - Surgery)	DG **	1940. SUPRADIAPHRAGMATIC GASTRIC VAGOTOMY (MEDICINE - Surgery)	DG **
1882. THE STORY OF BILE (MEDICINE - Physiology)	Iason **	1904. STUDIES IN BACTERIOLOGY. PART II: MOTILITY (MEDICINE - Bacteriology)	CDC-UMF **	1921. SUBTOTAL GASTRECTOMY (MEDICINE - Surgery)	Sturg	1941. SUPRADIAPHRAGMATIC GASTRIC VAGOTOMY FOR PEPTIC ULCER: THE ABDOMINAL APPROACH (MEDICINE - Surgery)	DG **
1883. THE STORY OF COAL (GEOLOGY - Mining)	KB	1905. STUDIES IN BACTERIOLOGY. PART III: CELL DIVISION (MEDICINE - Bacteriology)	CDC-UMF **	1922. SUBTOTAL GASTRECTOMY (MEDICINE - Surgery)	THOR **	1942. SUPRADIAPHRAGMATIC GASTRIC VAGOTOMY FOR PEPTIC ULCER: THE ABDOMINAL APPROACH (MEDICINE - Surgery)	DG **
1884. THE STORY OF ELECTRICITY (PHYSICS - Electricity)	KB	1906. STUDIES IN HUMAN FERTILITY (MEDICINE - Physiology)	ORTHO **	1923. SUBTOTAL GASTRECTOMY FOR PERFORATING DUODENAL ULCER (MEDICINE - Surgery)	Iason **	1943. SURGERY FOR DIRECT INGUINAL HERNIA (MEDICINE - Surgery)	Iason **
1885. THE STORY OF LUCY (MEDICINE - Rehabilitation)	Kessler *	1907. A STUDY IN BLACK (CHEMISTRY)	CABOT ** //	1924. SUBTOTAL THYROIDECTOMY: DEMONSTRATING LARYNGEAL NERVE (MEDICINE - Surgery)	BURKE	1944. SURGERY FOR MASSIVE HEMORRHAGE FROM GASTRO-DUODENAL ULCER (MEDICINE - Surgery)	DG **
1886. THE STORY OF MENSTRUATION (MEDICINE - Physiology)	Kimcl. * //	1908. STUDY IN HUMAN DEVELOPMENT. PART I: SIX TO THIRTY WEEKS (MEDICINE - Psychology)	PSU-PCR	1925. SUBTOTAL THYROIDECTOMY FOR ADENOMATOUS GOITER WITH SECONDARY HYPERTHYROIDISM (MEDICINE - Surgery)	DG **	1945. SURGERY IN FACIAL CANCER (MEDICINE - Surgery)	Tdec
1887. STORY OF PETROLEUM (GEOLOGY)	EBF * //	1909. STUDY IN HUMAN DEVELOPMENT. PART II: FORTY-TWO WEEKS TO FIFTEEN MONTHS (MEDICINE - Psychology)	PSU-PCR	1926. SUBTRACTION IS EASY (MATHEMATICS - Arithmetic)	CORONET *	1946. SURGERY OF THE BILIARY TRACT (MEDICINE - Surgery)	DG **
1888. THE STORY OF PHENOTHIAZINE (MEDICINE - Veterinary)	DUPONT //	1910. STUDY IN HUMAN DEVELOPMENT. PART III: NINETEEN MONTHS TO TWO YEARS AND EIGHT MONTHS (MEDICINE - Psychology)	PSU-PCR	1927. SUCKING WOUNDS OF THE CHEST (MEDICINE - Surgery)	USNavy-UMF **	1947. SURGERY OF THE COMMON BILE DUCT (MEDICINE - Surgery)	DG **
1889. THE STORY OF PREHISTORIC MAN (PALEONTOLOGY)	CORONET * NS TV	1911. STUDY IN HUMAN DEVELOPMENT. PART IV: THREE YEARS TO FIVE YEARS (MEDICINE - Psychology)	PSU-PCR	1928. SUCTION SOCKET ARTIFICIAL LIMB (MEDICINE - Surgery)	VETS-UMF **	1948. SURGICAL ANATOMY OF STOMACH AND PANCREAS (MEDICINE - Surgery)	BURKE
1890. A STORY OF RESEARCH (CHEMISTRY)	DUPONT **	1912. STUDY OF EQUIVALENT AND NONEQUIVALENT STIMULI IN THE RAT (MEDICINE - Psychology)	PSU-PCR	1929. SULFONAMIDE THERAPY (MEDICINE - Bacteriology)	ACC-Leder **	1949. SURGICAL ANATOMY OF SUB-MAXILLARY AND SUPRACLAVICULAR AREAS (MEDICINE - Surgery)	BURKE
1891. THE STORY OF ROCKY MOUNTAIN SPOTTED FEVER (MEDICINE - Preventive)	Hamm **	1913. A STUDY OF VOCAL CORD ABNORMALITIES FOLLOWING BULBAR POLIOMYELITIS (MEDICINE - Otorhinolaryngology)	UMINN	1930. SULPHUR AND ITS COMPOUNDS (CHEMISTRY)	CORONET *	1950. SURGICAL ANATOMY OF THE FEMALE PERINEUM: CADAVER DEMONSTRATION (MEDICINE - Surgery)	DG **
1892. STORY OF SULPHUR (CHEMISTRY)	Edited			1931. SUMMER ON THE FARM (BIOLOGY)	EBF *		
1893. THE STORY OF THE HELICOPTER (ENGINEERING)	USAF **			1932. SUN, SAND AND SURVIVAL (MEDICINE - Physiology)	USAF **		
1894. THE STORY OF THE MICROSCOPE (PHYSICS)	KB			1933. SUNFISH (ZOOLOGY)	EBF *		
1895. STORY OF THE SPARK PLUG (PHYSICS)	Champ ** //						
1896. STORY OF WEIGHTS AND MEASURES (MATHEMATICS - Measurements)	CORONET * NS TV						

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1951. SURGICAL ANATOMY OF THE INGUINAL AREA (MEDICINE - Surgery)	DG **	1968. SURGICAL MANAGEMENT OF PRIMARY HYPERTHYROIDISM (MEDICINE - Surgery)	DG **
1952. SURGICAL ANATOMY OF THE FEMORAL TRIANGLE (MEDICINE - Surgery)	DG **	1969. SURGICAL REPAIR OF COMPLETE UTERINE PROLAPSE (MEDICINE - Surgery)	DG **
1953. SURGICAL ANATOMY OF THE MALE PERINEUM (MEDICINE - Surgery)	DG **	1970. SURGICAL REPAIR OF DIRECT INGUINAL HERNIA WITH RECTUS SHEATH GRAFT (MEDICINE - Surgery)	THOR **
1954. SURGICAL ANATOMY OF THE PAROTID AREA (MEDICINE - Surgery)	DG **	1971. SURGICAL TECHNIQUE OF THE SEVERAL TYPES OF SKIN GRAFT (MEDICINE - Surgery)	DG **
1955. SURGICAL ANATOMY OF THE POSTERIOR LUMBOSACRAL AREA: CADAVR DEMONSTRATION (MEDICINE - Surgery)	DG **	1972. THE SURGICAL TREATMENT FOR CARCINOMA OF THE LOWER END OF THE ESOPHAGUS (MEDICINE - Surgery)	THOR **
1956. SURGICAL ANATOMY OF THE SHOULDER, PART I (MEDICINE - Surgery)	DG **	1973. SURGICAL TREATMENT OF CONGENITAL PULMONARY VALVULAR STENOSIS (MEDICINE - Surgery)	Sturg
1957. SURGICAL APPROACHES TO THE ANKLE JOINT (MEDICINE - Surgery)	VETS-CHU-WEX **	1974. THE SURGICAL TREATMENT FOR CONGENITAL PYLORIC STENOSIS (MEDICINE - Surgery)	THOR **
1958. SURGICAL APPROACHES TO THE ELBOW JOINT (MEDICINE - Surgery)	VETS-CHU-WEX **	1975. SURGICAL TREATMENT FOR PATENT DUCTUS ARTERIOSUS (MEDICINE - Surgery)	Sturg
1959. SURGICAL APPROACHES TO THE HIP JOINT (MEDICINE - Surgery)	VETS-CHU-WEX **	1976. THE SURGICAL TREATMENT FOR SPLENIC FLEXURE CARCINOMA WITH SOLITARY LIVER METASTASIS (MEDICINE - Surgery)	THOR **
1960. SURGICAL APPROACHES TO THE JOINTS OF THE FOOT (MEDICINE - Surgery)	VETS-CHU-WEX **	1977. SURGICAL TREATMENT OF ARTERIOVENOUS ANEURYSMS (MEDICINE - Surgery)	DG **
1961. SURGICAL APPROACHES TO THE JOINTS OF THE SPINE AND SACROILIAC (MEDICINE - Surgery)	VETS-CHU-WEX **	1978. THE SURGICAL TREATMENT OF CAROTID BODY SENSITIVITY IN MAN (MEDICINE - Surgery)	USArmy-P
1962. SURGICAL APPROACHES TO THE JOINTS OF THE WRIST (MEDICINE - Surgery)	VETS-CHU-WEX **	1979. SURGICAL TREATMENT OF SIATAL HERNIA (MEDICINE - Surgery)	DG **
1963. SURGICAL APPROACHES TO THE KNEE JOINT (MEDICINE - Surgery)	VETS-CHU-WEX **	1980. SURGICAL TREATMENT OF HIRSCHSPRUNG'S DISEASE (MEDICINE - Surgery)	Sturg
1964. SURGICAL APPROACHES TO THE SCAPULOHUMERAL JOINT (MEDICINE - Surgery)	VETS-CHU-WEX **	1981. SURGICAL TREATMENT OF HYPERTENSION (MEDICINE - Surgery)	DG **
1965. SURGICAL APPROACHES TO THE STERNOCLAVICULAR AND ACROMIOCLAVICULAR JOINTS (MEDICINE - Surgery)	VETS-CHU-WEX **	1982. SURGICAL TREATMENT OF VARICOSE VEINS (MEDICINE - Surgery)	DG **
1966. SURGICAL DIVISION OF A PATENT DUCTUS ARTERIOSUS (MEDICINE - Surgery)	LaRue	1983. SURVEYING WITH KYTOON (ENGINEERING)	USA-Eng **
1967. SURGICAL GINGIVECTOMY (DENTISTRY)	ScieFC //		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
1984. SWAMPLAND (ZOOLOGY)	Liofilms	2003. A TECHNIQUE FOR COUNTING MOTILE SPERMATOZOA (BIOLOGY)	WISTAR
1985. SWAT THE FLY (MEDICINE - Sanitation)	Edited	2004. TECHNIQUE OF BCG VACCINATION (MEDICINE - Immunology)	CDC-UMF **
1986. SWINGING INTO STEP (TF 8-2083) (MEDICINE - Rehabilitation)	USArmy-UMF **	2005. TECHNIQUE OF BRAIN SURGERY ON THE CAT WITH OBSERVATIONS ON VESTIBULAR DISFUNCTION AFTER SECTIONING THE EIGHTH NERVE (PCR-34) (MEDICINE - Psychology)	PSU-PCR
1987. SYMBOLS OF EXPRESSION (MEDICINE - Psychology)	PSU-PCR	2006. TECHNIQUE OF OPEN AMPUTATION (PMF 5033) (MEDICINE - Surgery)	USArmy-P
1988. SYMPATHETIC NERVE BLOCK (PMF-5090) (MEDICINE - Surgery)	USArmy-P	2007. TECHNIQUE OF TANTALUM CRANIOPLASTY (PMF-5097) (MEDICINE - Surgery)	USArmy-P
1989. SYNGAMY AND ALTERNATION OF GENERATIONS IN ALLOMYCES - A WATERMOLD (BIOLOGY)	Phase	2008. TECHNIQUES OF GROUP CHEST X-RAY SERVICES (MEDICINE - Lab. Procedures)	USPHS **
1990. SYNOVECTOMY OF THE KNEE FOR RHEUMATOID ARTHRITIS (PMF-5193) (MEDICINE - Surgery)	USArmy-P	2009. TEDDY BEARS AT PLAY (ZOOLOGY)	UMF *
- T -		2010. THE TEEN AGES: A STUDY OF ADOLESCENT BEHAVIOR (MEDICINE - Psychology)	UMICH TV
1991. T. B. NURSE WALLACE (MEDICINE - Nursing)	PSU	2011. THE TEEN NUMBERS (MATHEMATICS - Arithmetic)	YAF
1992. TAGGING THE ATOM (PHYSICS - Nuclear)	Handel TV	2012. TEETH: DEVELOPMENT AND CARE (MEDICINE - Hygiene)	EBF * /
1993. TALE OF THE TWIN CITIES (MEDICINE - Sanitation)	UMINN	2013. TELEVISION: HOW IT WORKS (PHYSICS)	CORONET *
1994. TAMING A WILD RIVER (ENGINEERING)	USA-Eng **	2014. TELEVISION IN YOUR COMMUNITY (ENGINEERING)	CORONET * TV MS
1995. TARGET TOOTH DECAY (DENTISTRY)	UoforkLA	2015. TELEVISION RECEIVERS (ENGINEERING)	McG-H
1996. TATTOOING OF SKIN GRAFTS AND PORT WINE STAINS (MEDICINE - Dermatology)	MFguild	2016. THE TELEVISION SYSTEM (PHYSICS)	McG-H
1997. TEACHING CRUTCH WALKING (MEDICINE - Rehabilitation)	GE ** /	2017. TELLING TIME BY THE CLOCK (MATHEMATICS - Measurement)	BAILEY
1998. TEAMWORK (MEDICINE - Psychology)	InstF	2018. TENDON TRANSPLANTS (MEDICINE - Physical)	USArmy-P
1999. TECHNIC FOR CHOLECYSTECTOMY (MEDICINE - Surgery)	Sturg	2019. TENSION TESTING (ENGINEERING)	OE /
2000. TECHNIC FOR CHOLECYSTECTOMY WITH COMMON DUCT EXPLORATION (MEDICINE - Surgery)	Hadden **	2020. TERMINAL SAPHEOUS LIGATION, ITS INDICATIONS AND TECHNIQUE (MEDICINE - Surgery)	BURKE
2001. TECHNIC OF AMALGAM RESTORATIONS (DENTISTRY)	ScieFC //	2021. TESTING AND INDIVIDUAL THERAPY FOR THE APHASIC PATIENT (MEDICINE - Physical)	VETS-CHU-WEX **
2002. THE TECHNIC OF GRAM'S STAIN (MEDICINE - Bacteriology)	SAB *		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
2022. TESTING ANIMAL INTELLIGENCE (MEDICINE - Psychology)	IntFB	2040. A THIRTY-SIX WEEKS BEHAVIOR DAT (MEDICINE - Psychology)	EBF *
2023. TESTING INTELLIGENCE WITH THE STANFORD-BINET (MEDICINE - Psychology)	IND	2041. THIS IS RESISTANCE WELDING (ENGINEERING)	GE **
2024. TESTING THE I.Q. (MEDICINE - Psychology)	IntFB	2042. THIS IS ROBERT: A STUDY OF PERSONALITY GROWTH IN A PRE-SCHOOL CHILD (MEDICINE - Psychology)	Vassar
2025. TESTING T-SQUARE & TRIANGLES (ENGINEERING)	PURDUE *	2043. THIS IS TB (MEDICINE - Communicable Diseases)	NatIDA //
2026. THEORY OF FLIGHT (PHYSICS)	EBF * //	2044. THIS IS THE MOON (ASTRONOMY)	YAF
2027. THEORY OF OPERATION OF THE "FOUR POLE MAGNETO" (PHYSICS)	GenAC /	2045. THIS WAY TO NURSING (MEDICINE - Nursing)	YAF
2028. THERAPEUTIC EXERCISE -- (INTRODUCTION (PMP-5034) (MEDICINE - Physical)	USArmy-UNF **	2046. THORACIC SURGERY (PMP-5016, 17, 18) (MEDICINE - Surgery)	USArmy-P **
2029. THERAPEUTIC EXERCISE -- (ORTHOPEDICS (PMP-5051) (MEDICINE - Physical)	USArmy-UNF **	2047. THORACOLUMBAR SYMPATHECTOMY FOR HYPERTENSION (MEDICINE - Surgery)	DG **
2030. THERAPEUTIC EXERCISE -- (THORACIC SURGERY (PMP-506) (MEDICINE - Physical)	USArmy-UNF **	2048. THORACOPLASTY, 1ST STAGE AND 2ND STAGE, IN THE TREATMENT OF PULMONARY TUBERCULOSIS (PMP-5208) (MEDICINE - Surgery)	USArmy-P **
2031. THERAPEUTIC USES OF HEAT AND COLD: PART I: ADMINISTERING HOT APPLICATIONS (MEDICINE - Physical)	OE /	2049. THE THREAT OF THE CATTLE FEVER TICK (MEDICINE - Veterinary)	USDA TV
2032. THERAPEUTIC USES OF HEAT AND COLD: PART II: ADMINISTERING COLD APPLICATIONS (MEDICINE - Physical)	OE /	2050. THREE COUNTIES AGAINST SYPHILIS (MEDICINE - Communicable Diseases)	USPHS **
2033. THERAPY INFLUENCING THE AUTONOMIC NERVOUS SYSTEM (MEDICINE - Neurology)	SEARLE **	2051. THREE LITTLE KITTENS (ZOOLOGY)	EBF * / //
2034. THERMODYNAMICS (PHYSICS)	EBF * //	2052. THREE TO MAKE READY (MEDICINE - Rehabilitation)	ICD
2035. THE THERMOMETER (PHYSICS)	InstF /	2053. THRUSHES AND RELATIVES (ZOOLOGY)	EBF *
2036. THEY DO COME BACK (MEDICINE - Communicable Diseases)	NatIDA	2054. THUNDER AND LIGHTNING (PHYSICS)	YAF
2037. THINGS EXPAND WHEN HEATED (PHYSICS)	YAF	2055. THYROID (MEDICINE - Surgery)	BURKE
2038. THE THINNEST SLICE (MEDICINE - Lab. Procedures)	USCal	2056. THYROIDECTOMY FOR PAPILLARY CARCINOMA OF THYROID, WITH CERVICAL METASTASES (MEDICINE - Surgery)	DG **
2039. THIRTY-FOUR INCH (ENGINEERING)	Becht **	2057. TIBIAL NERVE ANASTOMOSIS IN THE LOWER CALF (MEDICINE - Surgery)	USArmy-P **
		2058. TIDE POOL LIFE (ZOOLOGY)	InstF

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
2059. TIGER: AGELESS CITY OF THE NORTH (GEOGRAPHY)	BAILEY	2078. TOTAL HYSTERECTOMY (MEDICINE - Surgery)	BURKE
2060. TIME (GEOGRAPHY - Navigation)	USAF-UNF **	2079. TOTAL LARYNGECTOMY (MEDICINE - Surgery)	DG **
2061. TIME OUT: OCCUPATIONAL THERAPY IN TUBERCULOSIS (PMP-S116A) (MEDICINE - Nursing)	USArmy-UNF **	2080. TOTAL PERINEAL PROSTATECTOMY FOR MELANOMA (MEDICINE - Surgery)	DG **
2062. TIME-LAPSE STUDIES OF FLOWERS (BOTANY)	IO-R	2081. TOWARD INDEPENDENCE--PARAPLEGIC REHABILITATION (PMP-5055) (MEDICINE - Rehabilitation)	USArmy-UNF **
2063. THE TIMING OF HUMAN OVULATION (BIOLOGY)	WISTAR	2082. TOXEMIA OF PREGNANCY (MEDICINE - Obstetrics)	Irwin-Neisler **
2064. TINY WATER ANIMALS (ZOOLOGY)	EBF * //	2083. TRAIL TO HEALTH (MEDICINE - Communicable Diseases)	USInds
2065. TO HEAR AGAIN (PMP-5052) (MEDICINE - Rehabilitation)	USArmy-UNF **	2084. TRAINING IN FLOOD FIGHTING (ENGINEERING)	USA-Eng **
2066. TOE DRAIN APPLICATION TO LEVEE CONSTRUCTION (ENGINEERING)	USA-Eng **	2085. THE TRAITOR WITHIN (MEDICINE - Pathology)	ACS **
2067. TOMORROW MEETS TODAY (ENGINEERING)	FORD **	2086. TRANSDUODENAL SECTION OF THE SPHINCTER OF ODDI FOR PANCREATITIS (MEDICINE - Surgery)	DG **
2068. TOMMY THE LION (ZOOLOGY)	YAF	2087. TRANSORBITAL LOBOTOMY Pt. 1611 (MEDICINE - Surgery)	PSU-PCR //
2069. TOMMY'S DAY (MEDICINE - Hygiene)	YAF	2088. TRANSPLANTATION AND ANASTOMOSIS OF RADIAL NERVE (PMP-5081) (MEDICINE - Surgery)	USArmy-P **
2070. TONSILLECTOMY--SOME PREFERRED TECHNIQUES (MEDICINE - Surgery)	BURKE	2089. TRANSPLANTATION OF TENON'S CAPSULE (MEDICINE - Ophthalmology)	OPHTH-F /
2071. TOPICAL FLUORIDES: MULTIPLE CHAIR PROCEDURE (DENTISTRY)	USPHS **	2090. TRANSPLANTATION OF URETERS INTO RECTOSIGMOID AND CYSTECTOMY FOR CARCINOMA OF THE BLADDER (MEDICINE - Surgery)	DG **
2072. TOPICAL FLUORIDES: TECHNIC OF APPLICATION (DENTISTRY)	USPHS **	2091. TRANSPORTATION OF CASUALTIES (TF 8-1705) (MEDICINE - First Aid)	USArmy-P-UNF **
2073. TOPOGRAPHIC MAPPING BY PHOTOGRAMMETRIC METHODS (GEOGRAPHY - Maps)	INT-GeoS //	2092. TRANSTHORACIC ESOPHAGEAL DIVERTICULECTOMY (MEDICINE - Surgery)	THOR **
2074. TORNADO IN A BOX (ENGINEERING)	AllisG-GH	2093. TRANSTHORACIC GASTRECTOMY (MEDICINE - Surgery)	THOR **
2075. TOTAL ABDOMINAL HYSTERECTOMY AND PERINEORRHAPHY (MEDICINE - Surgery)	DG **	2094. TRANSTHORACIC PARTIAL GASTRECTOMY (MEDICINE - Surgery)	DG **
2076. TOTAL COLECTOMY WITH ILEOPECTOSTOMY FOR MEGA-COLON (HIRSCHSPRUNG'S DISEASE) (MEDICINE - Surgery)	THOR **	2095. TRANSTHORACIC REPAIR OF SLIDING HIATAL HERNIA (Allison) (MEDICINE - Surgery)	VETS **
2077. TOTAL CYSTECTOMY (MEDICINE - Surgery)	DG **	2096. TRANSTHORACIC RESECTION OF ESOPHAGUS (MEDICINE - Surgery)	DG **

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
2097. TRANSTHORACIC TOTAL GASTRECTOMY (MEDICINE - Surgery)	DG **	2117. TUBERCULOSIS OF THE LARYNX, TRACHEOBRONCHIAL TREE AND ESOPHAGUS (MEDICINE - Otorhinolaryngology)	JHMF *
2098. TRANSTHORACIC VAGECTOMY (MEDICINE - Surgery)	DG **	2118. TUMOR CELLS AND MACROPHAGES IN TISSUE CULTURE; RAT SARCOMAS AND CARCINOMAS (MEDICINE - Pathology)	WISTAR
2099. THE TRAPDOOR SPIDER (ZOOLOGY)	AAA	2119. TUMORS OF THE BRONCHI (MEDICINE - Pathology)	JHMF *
2100. TREASURE IN A GARBAGE CAN (MEDICINE - Sanitation)	UoFC	2120. TURNING RESEARCH INTO POWER (ENGINEERING)	Catet
2101. TREATMENT OF ERYTHROBLASTOSIS FETALIS BY SUBSTITUTION TRANSFUSION (MEDICINE - Pathology)	JMH	2121. THE TWIG IS BENT (MEDICINE - Rehabilitation)	CNS
2102. TREATMENT OF MENTAL DISORDERS (MEDICINE - Nursing)	PSU-PCR	2122. TWIXT THE CUP AND THE LIP (MEDICINE - Sanitation)	NYH
2103. TREATMENT OF THE MAJOR NEURALGIAS (MEDICINE - Neurology)	MFGuld *	2123. TYNDALL'S APPARATUS (PHYSICS)	MCG-H
2104. THE TREATMENT OF VARICOSE VEINS (MEDICINE - Internal)	SEARLE **	2124. TYPES OF SCREW LOCK SPLINTS AND BONE GRAFT CASES (PMP-5074) (DENTISTRY)	USArmy-P
2105. TREPONEMA PALIDUM FROM SYPHILITIC ULCER (MEDICINE - Bacteriology)	SAB *	2125. TYPHOID BACILLI: A STUDY OF THEIR MOTILITY AND AGGLUTINATION (MEDICINE - Bacteriology)	SAB *
2106. TRICHINOSIS (MEDICINE - Parasitology)	IO-R	2126. THE TYPHOID CARRIER (MEDICINE - Immunology)	ICA(11AA)
2107. TRICHOMONAL AND MONILIAL VAGINITIS (MEDICINE - Gynecology)	SEARLE **	2127. TYPHOID VACCINE RESEARCH (PMP-5165) (MEDICINE - Communicable Diseases)	USArmy-P
2108. TRICHOMONAS VAGINALIS FROM HUMAN VAGINA (MEDICINE - Bacteriology)	SAB *	2128. A TYPICAL GARDEN SPIDER (ZOOLOGY)	CORONET * MS TV
2109. TRIGEMINAL NEURALGIA (MEDICINE - Neurology)	Woolsey **	2129. TYPICAL TELEVISION INTERFERENCE PATTERNS (ENGINEERING)	USDA TV
2110. THE TRIODE: AMPLIFICATION (ENGINEERING)	OE	- U -	
2111. TRIPLET PREGNANCY; ONE INTRAUTERINE, TWO EXTRAUTERINE (MEDICINE - Obstetrics)	BURKE	2130. ULNAR NERVE AND SOFT TISSUE DEFECT AND SIMULTANEOUS REPAIR IN THE FOREARM (PMP-5133) (MEDICINE - Surgery)	USArmy-P
2112. TROPICAL OPOSSUMS (ZOOLOGY)	WISTAR	2131. ULNAR NERVE SUTURE AT THE WRIST (PMP-5092) (MEDICINE - Surgery)	USArmy-P
2113. TROUT FACTORY (ZOOLOGY)	HL	2132. UNCONSCIOUS MOTIVATION (MEDICINE - Psychology)	ASSOC
2114. TUBERCULOSIS (MEDICINE - Communicable Diseases)	EBF * //	2133. UNDERSTAND YOUR EMOTIONS (MEDICINE - Psychology)	CORONET *
2115. TUBERCULOSIS (MEDICINE - Communicable Diseases)	USIA **	2134. UNDERSTANDING A MAP (GEOGRAPHY - Maps)	YAF
2116. TUBERCULOSIS AND HOW IT MAY BE AVOIDED (MEDICINE - Communicable Diseases)	EBF *		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
2135. UNDERSTANDING CHILDREN'S PLAY (MEDICINE - Psychology)	Vassar	2152. USE OF RUSSELL TRACTION IN FRACTURES OF THE FEMUR (MEDICINE - Nursing)	NYMedC
2136. UNDERSTANDING OUR EARTH: GLACIERS (GEOLOGY)	CORONET *	2153. USE OF THE ARTIFICIAL KIDNEY (MEDICINE - Surgery)	DG **
2137. UNDERSTANDING OUR EARTH: SOIL (GEOLOGY)	CORONET *	2154. THE USE OF THE MICROSCOPE (PHYSICS)	ScieFC
2138. UNDERSTANDING VITAMINS (MEDICINE - Hygiene)	EBF *	2155. USE OF T-SQUARE & TRIANGLES (ENGINEERING)	PURDUE *
2139. UNDERWATER THERAPY (MEDICINE - Physical)	AMA **	2156. UTERINE CANCER: THE PROBLEM OF EARLY DIAGNOSIS (No. 4) (MEDICINE - Pathology)	ACS
2140. UNIFORM CIRCULAR MOTION (PHYSICS)	MCG-H	2157. U 238 RADIOACTIVE SERIES (PHYSICS - Nuclear)	MCG-H
2141. UNILATERAL TOTAL PNEUMONECTOMY FOR BRONCHOGENIC CARCINOMA (MEDICINE - Surgery)	Ochsner **	- V -	
2142. UNSUSPECTED (MEDICINE - Public Health)	WatTda	2158. VACCINATE AGAINST SMALLPOX (MEDICINE - Immunology)	ICA(11AA)
2143. UPPER EXTREMITY PROSTHETICS (MEDICINE - Rehabilitation)	VETS **	2159. VACUUM TUBES (PHYSICS - Electricity)	EBF * //
2144. UPPER SELECTIVE THORACOPLASTY FOR PULMONARY TUBERCULOSIS (MEDICINE - Surgery)	DG **	2160. VACUUM TUBES: ELECTRON THEORY AND THE DIODE TUBE (PHYSICS - Electricity)	USAF-UWF
2145. UREASE CRYSTALLIZATION (PMP-5113) (MEDICINE - Surgery)	USArmy-P **	2161. THE VAGINAL AND CERVICAL SNEAR (MEDICINE - Gynecology)	ortho **
2146. URETERO-ARACHNOID ANASTOMOSIS (MEDICINE - Surgery)	DG **	2162. VAGINAL HYSTERECTOMY (No. 66) (MEDICINE - Surgery)	DG **
2147. URETERO-INTESTINAL ANASTOMOSIS (MEDICINE - Surgery)	DG **	2163. VAGINAL REPAIR (269) (MEDICINE - Gynecology)	DG **
2148. URETERO-SIGMOID TRANSPLANT AND URETERO-SIGMOID ANASTOMOSIS: A COMPARISON OF TECHNIQUES (MEDICINE - Surgery)	BURKE	2164. VAGOTOMY FOR CHRONIC, NON-SPECIFIC, ULCERATIVE COLITIS (MEDICINE - Surgery)	THOR **
2149. URINARY INFECTIONS: BACTERIOLOGY, PATHOLOGY AND TREATMENT (MEDICINE - Bacteriology)	Nepera **	2165. VAGOTOMY FOR DUODENAL ULCER (PMP-5064) (MEDICINE - Surgery)	USArmy-P
2150. THE USE OF AIRCRAFT FOR INSECT CONTROL. PART 1: MOSQUITO CONTROL (MEDICINE - Sanitation)	CDC-UWF **	2166. THE VALLEYS (GEOGRAPHY)	BARR
2151. THE USE OF DIGITALIS IN HEART FAILURE (MEDICINE - Internal Medicine)	WYETH **	2167. VANISHING BIRDS (ZOOLOGY)	Pictura TV
		2168. VASCULAR INJURIES (PMP-5180) (MEDICINE - Surgery)	USArmy-P
		2169. VELOCITY OF CHEMICAL REACTIONS (CHEMISTRY)	EBF * //
		2170. VESICULAR EXANTHEMA (MEDICINE - Veterinary)	USDA

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
2171. VIBRATORY MOTIONS AND WAVES (PHYSICS)	Edited	2190. WATER BIRDS (ZOOLOGY)	EBF * //	2213. WEIGHING WITH ANALYTICAL BALANCE (PHYSICS)	UMIN	2237. WHITE SPLENDOR (ZOOLOGY)	Pictura TV
2172. VICKSBURG DISTRICT ACTIVITIES (ENGINEERING)	USA-Eng **	2191. WATER CYCLE (PHYSICS)	EBF * //	2214. WEIGHTS AND MEASURES (MATHEMATICS - Measurement)	EBF * NS	2238. WHITE THROMBO-EMBOLISM IN THE MINUTE CREEK POUCH VESSELS OF THE HAMSTER (MEDICINE - Hematology)	Bostonu
2173. VIEWS OF A DECORTICATE DOG (MEDICINE - Psychology)	PSU-PCR	2192. WATER FOR MILLIONS (ENGINEERING)	LAMP	2215. WELTON (MEDICINE - Public Health)	UofWash	2239. WHO'S WHO AT THE BRONX ZOO (ZOOLOGY)	YAF
2174. VIRAL HEPATITIS (Filmograph 8-6) (MEDICINE - Internal)	USArmy-P **	2193. WATER, FRIEND OR ENEMY, (MEDICINE - Sanitation)	USIA **	2216. WESTERN GREBE (ZOOLOGY)	USInt-FAWS	2240. WHY CAN'T JIMMY READ? (MEDICINE - Psychology)	Syracu
2175. VISION WITH SPATIAL INVERSION (MEDICINE - Psychology)	PSU-PCR	2194. WATER IN THE AIR (PHYSICS)	Instf /	2217. WESTWARD FLOW (ENGINEERING)	SoCalG **	2241. WHY WILLIE WAS WILLING TO WASH (MEDICINE - Hygiene)	ICS
2176. VISUAL FORM DISCRIMINATION IN THE CAT (MEDICINE - Psychology)	PSU-PCR	2195. WATER POWER (PHYSICS)	EBF * //	2218. WHAT ARE DECIMALS? (MATHEMATICS - Arithmetic)	Instf	2242. WICKET RECOVERY BY MEANS OF MECHANICAL "ELEPHANT TRUNK" GEAR (ENGINEERING)	USA-Eng **
2177. VISUAL HEARING (MEDICINE - Rehabilitation)	OSuniv	2196. WATER SUPPLY (ENGINEERING)	ACAD	2219. WHAT ARE FRACTIONS (MATHEMATICS - Arithmetic)	Instf	2243. WILD FOWL IN SLOW MOTION (ZOOLOGY)	STER
2178. THE VITAL SIGNS AND THEIR INTERRELATIONS: BODY TEMPERATURE, PULSE, RESPIRATION, BLOOD PRESSURE (MEDICINE - Nursing)	OE	2197. WATER, WATER EVERYWHERE: OBSERVING THINGS ABOUT US (PHYSICS)	CORONET * MS TV	2220. WHAT CAUSES THE SEASONS (GEOGRAPHY)	YAF	2244. WILD LIFE OF THE DESERT (ZOOLOGY)	ASA
2179. VITALLIUM CUP ARTHROPLASTY (MEDICINE - Surgery)	DG **	2198. THE WATER WE DRINK (MEDICINE - Sanitation)	CORONET *	2221. WHAT IS A MAP? (GEOGRAPHY - Maps)	YAF	2245. WILD WINGS (ZOOLOGY)	MichDC
2180. VITAMINS, AND SOME DEFICIENCY DISEASES (MEDICINE - Internal)	ACC-Leder	2199. WATER WORKS FOR US (PHYSICS)	YAF	2222. WHAT IS DISEASE? (MEDICINE - Communicable Diseases)	USIA **	2246. WILDLIFE AND THE HUMAN TOUCH (ZOOLOGY)	USDA TV
2181. VOCALIZATION AND SPEECH IN CHIMPANZEES (MEDICINE - Psychology)	PSU-PCR	2200. WATERFOWL IN ACTION (ZOOLOGY)	UMIN	2223. WHAT IS ELECTRICITY? (PHYSICS - Electricity)	EBF-WH * MS	2247. WILDLIFE OF THE ALEUTIAN ISLANDS (ZOOLOGY)	USInt-FAWS **
2182. VOLCANO (GEOLOGY)	UofC	2201. WATERFOWL IN THE SPRING (ZOOLOGY)	Winnhol **	2224. WHAT IS ELECTRICITY? (PHYSICS - Electricity)	Westh	2248. WILLIE AND THE MOUSE (MEDICINE - Psychology)	TFC-MGM *
2183. VOLCANOES IN ACTION (GEOLOGY)	EBF * //	2202. WATERS OF THE COMMONWEALTH (MEDICINE - Sanitation)	PennOH	2225. WHAT IS SCIENCE? (SCIENCE - Misc.)	YAF	2249. WINDS AND THEIR CAUSES (PHYSICS - Meteorology)	CORONET *
2184. "VOLUNTARY" CONTROL OF HAIR RAISING WITH ASSOCIATED AUTONOMIC PHENOMENA (MEDICINE - Psychology)	PSC-PCR	2203. WAVES IN A STRING (PHYSICS)	McG-H	2226. WHAT IS SOIL (GEOLOGY)	CORONET *	2250. WING CONSTRUCTION (ENGINEERING)	USAF-UWF /
2185. VORTICELLA (BIOLOGY)	Edited	2204. WE DISCOVER FRACTIONS (MATHEMATICS - Arithmetic)	CORONET *	2227. WHAT IS SOUND? (PHYSICS)	YAF	2251. WINGED SCOURGE (MEDICINE - Tropical)	USIA **
2186. THE WANDERER; OR, MONARCH BUTTERFLY (ZOOLOGY)	LibFilms-WH	2205. WE EXPLORE THE BEACH (ZOOLOGY)	CORONET * MS TV	2228. WHAT MAKES A DESERT (GEOGRAPHY)	YAF	2252. WISE PARENTS, HEALTHY BABIES (MEDICINE - Obstetrics)	JCA(IIIA)
2187. WARD CARE OF PNEUMONIA PATIENTS (TF 8-1650) (MEDICINE - Nursing)	USArmy-P **	2206. WE MAKE A FIRE (PHYSICS)	Instf /	2229. WHAT MAKES DAY AND NIGHT (ASTRONOMY)	YAF	2253. WITHIN YOUR HANDS (MEDICINE - Physical)	ScienceP.
2188. WARD CARE OF PSYCHOTIC PATIENTS (MEDICINE - Nursing)	USArmy-P	2207. WE SEE THEM THROUGH (MEDICINE - Nursing)	CB **	2230. WHAT MAKES RAIN (PHYSICS - Meteorology)	YAF	2254. WOLF RIVER FLOODWALL, Section 3 (ENGINEERING)	USA-Eng **
2189. THE WARNING SHADOW (MEDICINE - Preventive)	ACS **	2208. WE SPEAK AGAIN--THE REHABILITATION OF LARYNGECTOMIZED PATIENTS (MEDICINE - Rehabilitation)	Schall	2231. WHAT MAKES THINGS FLOAT (PHYSICS)	YAF	2255. WONDER ENGINE OF THE BODY: THE HUMAN HEART (BIOLOGY)	BRAY
		2209. WE USE POWER (PHYSICS)	CHU-MEX	2232. WHEN SHOULD GROWN-UPS HELP? (MEDICINE - Psychology)	Vassar	2256. THE WONDER OF CHEMISTRY (CHEMISTRY)	YAF
		2210. THE WEATHER (PHYSICS - Meteorology)	EBF * /	2233. WHEN SHOULD GROWN-UPS STOP FIGHTS (MEDICINE - Psychology)	Vassar	2257. WONDERS IN A COUNTRY STREAM (ZOOLOGY)	CHU-MEX
		2211. WEATHER AND RADAR (MN 119-1) (PHYSICS - Meteorology)	USNavy-UWF *	2234. WHEN YOU CHOOSE NURSING (MEDICINE - Nursing)	ACC-Leder	2258. WONDERS IN THE DESERT (ZOOLOGY)	CHU-MEX
		2212. WEATHER WIZARDS (PHYSICS - Meteorology)	TFC-MGM *	2235. WHERE MILEAGE BEGINS (PHYSICS)	GenM **		

ASTRONOMY

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
2259. WONDERS IN YOUR OWN BACK YARD (ZOOLOGY)	CHU-WEX	2280. YOUR EYES (BIOLOGY)	YAF
2260. WONDERS OF PLANT GROWTH (BOTANY)	CHU-WEX	2281. YOUR HEALTH CENTER (MEDICINE - Public Health)	JCA(11AA) //
2261. WONDERS OF THE SEA (ZOOLOGY)	TFC-20th Cent-Fox	2282. YOUR OWN TEETH (MEDICINE - Hygiene)	UNIM
2262. THE WOODCOCK (ZOOLOGY)	Int-F&WS TV	2283. YOUR PUBLIC HEALTH NURSE (MEDICINE - Nursing)	NTH
2263. WORK OF KIDNEYS (MEDICINE - Physiology)	EBF * / //	2284. YOUR TEETH (MEDICINE - BIOLOGY)	YAF
2264. WORK OF RIVERS (GEOGRAPHY)	EBF * //	2285. THE YUKIMA STORY (PHYSICS - Nuclear)	USIA ** //
2265. WORK OF THE ATMOSPHERE (GEOLOGY)	EBF * //	- Z -	
2266. THE WORLD OF SOUND (BIOLOGY)	TFC-Columbia *	2286. ZOO (ZOOLOGY)	EBF *
2267. WORLD OF WATER (ZOOLOGY)	McG-H	2287. ZOO BABIES (ZOOLOGY)	CORONET * MS TV
2268. WORMS-THE ANNELIDA: LEECHES, EARTHWORKS, AND SEA WORMS (ZOOLOGY)	EBF * MS	2288. ZOO FAMILIES (ZOOLOGY)	FAOTC
- Y -			
2269. YAMS (PMF-5049) (MEDICINE - Tropical)	USArmy-P **		
2270. YOSEMITE: END OF THE RAINBOW (GEOGRAPHY)	GHSP		
2271. YOU CAN BE SAFE FROM S-HAYS (MEDICINE - Lab. Procedures)	CDC-WHF **		
2272. YOU CAN HEAR AGAIN (MEDICINE - Rehabilitation)	VETS **		
2273. YOU CAN LICK TB (MEDICINE - Communicable Diseases)	VETS **		
2274. YOUNGER GENERATION (ZOOLOGY)	McG-H		
2275. YOUR BODY DURING ADOLESCENCE (MEDICINE - Physiology)	McG-H		
2276. YOUR BODY SPEAKS (MEDICINE - Hygiene)	COLUM		
2277. YOUR CHILD'S FIRST VISIT TO THE DENTIST (DENTISTRY)	ADA *		
2278. YOUR CLEANLINESS (MEDICINE - Hygiene)	YAF		
2279. YOUR EARS (BIOLOGY)	YAF		

DESCRIPTIONS OF MOTION PICTURES

ASTRONOMY

The earth (Motion picture) U. S. Dept. of the Navy, 1942. Produced by Springer Pictures. Released for public educational use through U. S. Office of Education, 1943. 17 min., ed., b&w, 16 mm. (Navigation series).
Order no. MN 83-a.
Summary: Explains the arrangement and meaning of the pole, great circles, parallels, meridians, longitude, latitude, nautical mile, and departure. College level.
— Another issue. 35 mm.

Earth in motion (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1936. 12 min., ed., b&w, 16 mm.
With film guide.
Summary: Portrays the earth as an astronomical body and discusses its relation to the sun and its motion. Presents evidence of the earth's sphericity, its rate of rotation, its revolution about the sun, and inclination of its axis. Presents simulated observation of the earth from the atmosphere, of earth and stars in motion, and of the earth's orbit movement, explaining the causes of night and day and of seasons. For high school, college, and adult groups.

Earth, latitude and longitude (Motion picture) Edited Pictures System, 1938. 10 min., ed., b&w, 16 mm.
Summary: Physical and imaginary divisions and subdivisions of world: Oceans, continents, islands, rivers, travel individually and collectively. Longitude and latitude used to chart locations, determine time.
— Another issue. silent.

Earth, rotation and revolution (Motion picture) Edited Pictures System, 1938. 10 min., ed., b&w, 16 mm.
Summary: Abstract concepts which explain seasonal changes which occur on earth, earth's rotation and revolution, force of gravity. Comparative distances between planets, relationship to earth. Atmospheric envelope, the five zones.
— Another issue. silent.

Exploring space (Motion picture) Columbia Pictures Corp., 1941. Released for educational purposes by Teaching Film Outlets, 1946. 9 min., ed., b&w, 16 mm. (Cinescope series).
Summary: Depicts a trip through space, photographed in the Hayden Planetarium. Shows the major planets and explains an eclipse of the sun.

Exploring the night sky (Motion picture) Encyclopedia Britannica Films, Inc., 1956. 10 min., ed., b&w, 16 mm.

Exploring the universe (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1937. 11 min., ed., b&w, 16 mm.
With film guide.
Summary: Describes the vastness of the universe, the complexity of motion going on in it, and the theory of the expanding universe. Explains the principles of refracting and reflecting telescopes. Includes stars and clusters in our own galaxy showing their movements in relation to each other and as part of a great galaxy. For high school, college, and adult groups.

The infinite universe (Motion picture) Almanac Films, Inc., 1952. 10 min., ed., b&w, 16 mm.
Summary: Concepts of astronomical time, space, speed, stars, galaxies and distant stars of universe. Space time concepts related to common, everyday dimensions.

The moon (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1936. 11 min., ed., b&w, 16 mm.
With film guide.
Summary: Explains various major concepts concerning the moon. Describes how the moon's gravitational pull causes the earth's tides, and shows models for the phases of the moon. Animated drawings and moving models symbolize the motions of the moon in its orbit around the earth, and compares with the earth around the sun. Discusses facts concerning lunar and solar eclipses. For high school, college, and adult groups.

ASTRONOMY

The seasons (Motion picture) Motion Picture Association of America in collaboration with Macmillan Co. and the American Council on Education. Made by Film Graphics. Released for educational purposes by Teaching Film Cus-
tollans, 1948.

22 min., ed., color, 16 mm.
A Teaching Film Survey motion picture.
Summary: Explains why the seasons change throughout the year. Through animated drawings shows the tilt of the earth's axis, the rotation of the earth upon its axis, the revolution of the earth around the sun, and the effect of these movements upon the sun's rays.
— Another issue. bkw.

Solar family (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1953.

11 min., ed., b&w, 16 mm.
With film guide.
Summary: Presents an introductory study of the planets—their positions, motions, sizes, and distances. Describes, through animated drawings, the evolution of the solar system according to planetary gravitation, and shows the real and apparent motions of the planets. Includes special treatment pertaining to certain planets, and describes the planets, their orbits, and the movement of the solar system in space. For high school, college, and adult groups.

Solar prominences (Motion picture) University of Michigan

Audio-Visual Center, 1948.
11 min., ed., b&w, 16 mm.
Summary: Presents observations, during a period of 140 hours, at a specially designed solar telescope, revealing the activities of sunspots and the forces at work in the solar system. Visualizes the intensity of distances between the planets and the sun through an actual scale model of the solar system. Demonstrates the relationship of the planets to each other; their orbits; differences between planets and stars; and gravitational attraction, light, and heat.
— Another issue. bkw.

The solar system (Motion picture) Coronet Instructional

Films, 1951.
11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Presents the names of the planets, their relative sizes, and the forces at work in the solar system. Visualizes the intensity of distances between the planets and the sun through an actual scale model of the solar system. Demonstrates the relationship of the planets to each other; their orbits; differences between planets and stars; and gravitational attraction, light, and heat.
— Another issue. bkw.

The sun's family (Motion picture) Leonard Peck Productions

Released by Young America Films, 1950. © Leonard Peck Productions; 1950; MF100.
10 min., ed., b&w, 16 mm.
Summary: Shows the relationship of the sun and the major planets, the relative size of the planets, and their positions in the solar system. For elementary grades.

This is the moon (Motion picture) Leonard Peck Productions

Released by Young America Films, 1949.
11 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Describes the moon—its relation to the sun and the earth, its phases, and its physical characteristics. For elementary grades.

What makes day and night (Motion picture) Young

America Films, 1947.
8 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Two children learn that the alternation of day and night is due to the rotation of the earth and not to the apparent movement of the sun around the earth. For elementary grades.

BIOLOGY

Alcohol and the human body (Motion picture) Encyclo-

pædia Britannica Films, 1949.
14 min., ed., b&w, 16 mm.
With film guide.
Summary: Shows how alcohol is made; explains the specific effects of ethyl alcohol on the human body; demonstrates the use of a problem drinker; and shows how alcoholism is being treated medically. For high school, college, and adult groups.

Alimentary tract (Motion picture) Erpi Classroom Films

(later name Encyclopedia Britannica Films) 1953.
11 min., ed., b&w, 16 mm.
With film guide.
Summary: Portrays and explains the actions of the esophagus, stomach, small intestine, and colon to move food and waste materials through the body. Reveals normal and simulated stomach reactions such as hyperperistalsis, inhibition, and hunger contractions; and shows such intestinal phenomena as segmentation, peristalsis, and absorption. Through cinematography demonstrates movements of the intestinal villi. For high school, college, and adult groups.

Amoeba (Motion picture) Edited Pictures System, 1927.

10 min., ed., b&w, 16 mm.
Summary: Habits of unicellular life; physical structure; nerve control; methods of reproduction; digestive and reproductive processes of amoeba.

Amoeba and vorticella (Motion picture) Edited Pictures

System, 1928.
10 min., ed., b&w, 16 mm.
Summary: Microbiology of uncelled animals; habits of unicellular life; physical structure; methods of reproduction. Muscular action, nerve control, methods of nutrition, processes of reproduction.

Annelids, reel I (Motion picture) University of Iowa. Made

and released by Rutgers Films, 1952.
14 min., ed., color, 16 mm. (Biological film)
Kodachrome.
Summary: Shows the annelid, *Eteimura*, spinning a silken web in which it catches its prey. Shows the internal features of the annelid. Details of the mouth, burrowing and feeding activities.

Annelids, reel II (Motion picture) University of Iowa.

Made and released by Rutgers Films, 1952.
14 min., ed., color, 16 mm. (Biological film)
Kodachrome.
Summary: Shows close-up details of various annelids, including *Nereis*, *Polychaeta*, *Polychaeta*, *Chelodonta*, and associated *Nereis* which are found at various depths burrowing in sand and mud.

Annelids, reel III (Motion picture) University of Iowa.

Made and released by Rutgers Films, 1952.
14 min., ed., color, 16 mm. (Biological film)
Kodachrome.
Summary: Shows annelids, *Eteimura*, *Polychaeta*, and *Polychaeta* living in tubes which they secrete, and crawling into mud crevices. Includes *Amphitrite*, *Glottidia*, *Stetis*, and *Tubificora*.

Aphids (Plant lice) (Motion picture) Erpi Picture Con-

sultants (later name Encyclopedia Britannica Films) 1953.
12 min., ed., b&w, 16 mm.
Summary: Reveals characteristics and the life cycle of the plant louse. Explains how in early spring, aphid eggs hatch into wingless females which, throughout the same season, give birth to new young every ninety minutes. Through cinematography portrays egg-laying, feeding, and wing development. Depicts how other insects destroy aphids, thus aiding in their control.

Arctic borderlands in winter (Motion picture) Coronet In-

structional Films, 1948.
11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Dramatizes the adaptations of plants and animals to living conditions just south of the Arctic Circle. Records the migrations and color changes of animals preparing for the winter.
— Another issue. bkw.

Asexual reproduction (Motion picture) Indiana University

Audio-Visual Center, 1954.
10 min., ed., b&w, 16 mm.
— Another issue. color.

The atom and biological science (Motion picture) Encyclo-

pædia Britannica Films, 1953.
12 min., ed., b&w, 16 mm.
Produced in collaboration with the Division of the Physical Sciences of the University of Chicago, which includes the Institute of Nuclear Studies.

With film guide.
Summary: Identifies and dramatizes the use of atomic radiation in research. Reveals the effects of radiation on reproduction, growth, and heredity in plants and in a single-celled animal; shows how radioactive substances affect the fundamental processes of food utilization in animals; explains how atomic energy has been used in cancer research and how studies conducted with animals are to be adapted for the benefit of human beings. Animated drawings are used to explain principles related to procedures that cannot be seen by the unaided eye.

Atomic biology for medicine (Motion picture) Handel Film

Corp., 1955.
12 min., ed., b&w, 16 mm. (The magic of the atom, no. 22)
Produced with the technical assistance of the U. S. Atomic Energy Commission and the Atomic Energy Project of U. S. A.
Summary: Explains that atomic energy has proved to be an effective tool in various research experiments. Describes how dust inhalation tests made with animals provide useful information regarding the protection of workers in the atomic energy industry; how the uses of mice are extended for effects of radiation; and how animals are used in the study of the effects of radiation on cell division, bones, tissues, and tumors.

BIOLOGY

Behavior of unicellular animals (Motion picture) Adalbert

Ford, 1935. Released by Psychological Cinema Register, Pennsylvania State University.
12 min., ed., b&w, 16 mm.
Summary: Displays *paramecia* and other protozoa to show locomotor responses, behavior, and a rich feeding area, difference in behavior in response to positive and negative electrical, negative responses to heated wire, reactions to acid, and "jerklike reaction" in a capillary tube.

Biology of domestic flies (Motion picture) U. S. Public

Health Service, 1952.
9 min., ed., b&w, 16 mm. (Community fly control series)
Order no. 118.
Summary: With same title, covering same subject matter, also available. Summary: Explains the life cycle of the house fly; characteristics of domestic flies (house, blue, and stable flies); typical breeding places; public health implications of the fly's mechanical role in transmitting disease organisms and filth; and control measures.

The biology of reproduction in rats (Motion picture) The

Wistar Institute, 1942.
15 min., ed., color, 16 mm.
Summary: By obtaining concurrent estrus and hour-by-hour running records in rats, extending from puberty to old age, Doctor Farber has discovered a "running" pattern which enables him to detect precisely, from "running" records alone, exact time of commencement of estrus and time of many of other reproductive incidents. Rat running on inclined table; apparatus room in which cyclometer figures are tallied and photographed automatically at hourly intervals. Varying mating behaviors, male and female, at different stages of estrus. Living ovaries, oviducts and uterus at various stages; solvolysis of spermatogenesis in the several parts of female genital tract at different phases of estrus. (Dr. Edmund J. Farber).

Blood circulation in marine animals (Motion picture) Uni-

versity of Iowa. Made and released by Rutgers Films, 1942.
14 min., ed., color, 16 mm. (Biological film)
Kodachrome.
Summary: Describes a variety of circulating fluids and mechanisms. Shows ctenoid and pinnate fish and corals in pulsating vessels and hearts. Microscopic views of capillaries and the circulating media demonstrate transportation of food, oxygen, and waste. Specimens shown include *Thais*, *Nereis*, *Glottidia*, *Callinectes*, *Palaemonetes*, *Glypto*, a fish, and a turtle.

Camouflage in nature through form and color matching

(Motion picture) Coronet, 1945.
11 min., ed., color, 16 mm.
With teacher's guide.
Summary: Reveals how camouflage protects animals, birds, and fish from their natural enemies. Presents thirty-two species, illustrating their unique and intricate methods of blending with their surroundings by form and color matching. For intermediate grades, high school, college, and adult groups.

Camouflage in nature through pattern matching (Motion

picture) Coronet Instructional Films, 1945.
8 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Pictures the protective markings many animals bear to blend with their varied surroundings. The animals who carry inconspicuous markings because they need protection for reasons of age, sex, or lack of ability to defend themselves, are contrasted with those who are boldly marked.
— Another issue. bkw.

BIOLOGY

Coelenterata and Ctenophora, part II (Motion picture)
University of Iowa. Made and released by Rutgers Films.
1942.
14 min., 41, color, 16 mm. (Biological film)
Kiodochrom
Summary: Shows main features of the hydroid *Clara*; marginal
autozooids and small of section disc of *Halicystis*; tentacles,
sensory nerves, and peculiar swimming activity of *Gyanea* and
Aurelia; retractile polyps of *Alcyonaria*; and the slime tube protective
of *Cystodonta*.

Echinodermata, reel 1 (*Motion picture*) University of Iowa.
Made and released by Rutgers Films, 1939.
 14 min., st. color, 10 mm. (Biological film)
 Kodachrome.
Synopsis: Shows *Asterias*, the common sea star of the Maine coast. Its locomotion and feeding activities, tube feet and pedicellariae, its everted stomach; an attempt to open the valves of a living mussel. Illustrates the typical method of feeding on bivalve mollusks. Shows details of the sea cucumber, *Cucumaria*, including its tentacles, eversion, method of feeding, cloacal breathing movements, and action of the cloacal valve. Shows details of *Strongylocentrotus*, the sea urchin. Shows a number of views of the mouth and surrounding pedicellariae in active routine.

Gulf of Mexico invertebrates, reel II (*Motion picture*) University of Iowa. Made and released by Rutgers Films 1942.
14 min., sl., color, 16 mm. (Biological film)
Kodachrome.
Summary. Shows habitats and specimens of many of the invertebrates found along the northern gulf coast of Florida, including stone crabs, coral, soldier beetle, antirrhine, and fiddler crabs, and scud.

House-fly (*Notion picture*) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1938.
11 min., sd., b&w, 16 mm.
With teacher's guide.
Summary: Describes the house-fly as a menace to health through its portrayal of its habits and life history. Traces physical development from egg-laying through larval and pupal stages to the emergence of the young fly. Through magnified views, reveals biological structure and methods of carrying and spreading disease germs. Suggests control methods. For elementary grades, high school, and adult.

BIOLOGY

BIOLOGY

Best that builds good health (Motion picture) Coronet, 1953.
11 min., ed., color, 16 mm.

Summary: A sixth-grade boy learns that sleep, relaxation, and change are important ways to rest. Explains how to develop good rest habits, what happens to bodies during sleep, and why proper amounts of rest are essential to growth and well-being.

Another issue, b&w.

The riddle of photosynthesis (Motion picture) Handl Film Corp., 1955.

13 min., ed., b&w, 16 mm. (The magic of the atom, no. 24)
Produced with the technical assistance of the U. S. Atomic Energy Commission and the Atomic Energy Project at U. C. L. A.
Summary: Explains that the use of radioactive carbon is enabling scientists to make great progress in the study of photosynthesis. Follows step-by-step an experiment conducted at the radiation laboratory at Berkeley, which is helping to solve the riddle of photosynthesis, including estimated sequence.

Salamanders and their young (Motion picture) University of Iowa. Made and released by Rutgers Films, 1942.

12 min., ed., color, 16 mm. (Biological film)
Kodachrome.
Summary: Shows habitats and places where salamander eggs are deposited. Young larvae break out from the egg capsule and take up as independent existence; gills and legs appear and the salamander takes on the adult form. Specimens shown include Jefferson's spotted, shiny, dusky, red, two-lined, the neot, and the mud puppy salamander.

See how they swim (Motion picture) Thomas Craven Films Corp., Released by Picture Films Corp., 1954.

11 min., ed., color, 16 mm. (The world around us, no. 4)
With study guide.
Summary: Shows the special adaptations to environment of the Canadian goose, whistling avian, mallard duck, and white pelican, and features the humorous antics of the brown pelican.

Spermatozoa of vertebrates (Motion picture) The Wistar Institute, 1951.

40 min., ed., b&w, 16 mm.
Summary: Series of pictures of living spermatozoa of different vertebrates from fish to man taken by means of phase and darkfield cinematography. Diagrammatic projections of sperm illustrate individual characteristics.
Reel I: Introduction. Views of active sperm of fish, frog, snake, roach, turkey, rat, hamster, opossum.
Reel II: Active sperm of rabbit, pig, cat, dog, bull and monkey. Diagrammatic summary. Progressive motility with relation.
Reel III: Living human spermatozoa (phase cinematography at different magnifications). Normal and abnormal spermatozoa. Characteristic types of motility presented.

Spring is an adventure (Motion picture) Coronet Instructional Films, 1955.

11 min., ed., color, 16 mm.
With study guide.
Summary: With the coming of spring, a young girl observes many changes in human activities and in trees, flowers, birds, and animals. Shows flowers budding and blossoming; trees blossoming; a garden being planted; and new-born birds waiting to be fed.

Another issue, b&w.

A strand breaks (Motion picture) Conservation Foundation in collaboration with the New York Zoological Society. Released by Encyclopedia Britannica Films, 1950.

10 min., ed., color, 16 mm. (Web of life series, no. 2)
With teacher's guide.
Summary: Portrays the effects of a state of imbalance in nature. The destruction of a community, as a consequence of one element getting out of hand is traced in regard to forest and grassland. Explores the results of overgrazing and hunting, and points out that only by intelligent management can man secure his heritage of the soil.

Summer on the farm (Motion picture) Encyclopedia Britannica Films, 1947.

11 min., ed., color, 16 mm. (Primary science. Seasons)
With teacher's guide.
Summary: Joan and Jerry take part in the summer activities on the farm. Shows seasonal changes and rapid growth of plants and animals during the summer months. For primary and middle grades.

Synonymy and alternation of generations in *Alisma*—a watermold (Motion picture) Phase Films, 1953.

20 min., ed., b&w, 16 mm.
Produced under the supervision of Ralph Kuersten.
Summary: A study of the aquatic phycomorph *Alisma* revealing the major features of reproduction. Shows asexual propagation by diploid zoospores to illustrate rapid multiplication and sexual cycle. Phase-contrast cinematography and animated sequences.

A technique for counting motile spermatozoa (Motion picture) The Wistar Institute, 1947.

6 min., ed., b&w, 16 mm. (Phase Microscopy)
Summary: Improved technique for making analysis to determine male (human) fertility: (1) Views of normal and abnormal spermatozoa; (2) Types of measurement of spermatozoa: "progressive", straight, oscillating, circling; (3) Technique of making counts of total number of active spermatozoa and of measuring their rates of progression; (4) Method of obtaining index of fertility from figures for volume, count per unit, and percentage of motility used to calculate actual number of moving spermatozoa in ejaculate.

The timing of human ovulation (Motion picture) The Wistar Institute, 1949.

15 min., ed., color, 16 mm.
Summary: Method of performing biological test based upon pituitary hormones in the urine to determine time of human ovulation. Interpretation of findings (animated drawings and graphs).

Vorticella (Motion picture) Edited Pictures System, 1927.

10 min., ed., b&w, 16 mm.
Summary: Expeditious of microbiology; physical structure, methods of reproduction, muscular action, nerve control and motivation of vorticella.

Wonder engine of the body: the human heart (Motion picture) Irby Studios, 1952.

11 min., ed., b&w, 16 mm.
Produced with the cooperation of the American Heart Association. Short version of the film *Guard your heart*.
Summary: Through diagrams describes the anatomy and physiology of the human heart. Discusses the remarkable amount of work carried by the heart each day. Explains why the pulse rate varies under certain conditions; how the doctor can judge the condition of the heart; make a chart of heart beats; determine blood pressure; how overwork affects the heart; how you can help your heart to function properly.

The world of sound (Motion picture) Columbia Pictures Corp., 1941. Released for educational purposes by Teaching Film Custodians, 1945.

11 min., ed., b&w, 16 mm. (Cinemascope series)
Summary: Explains the importance of sound, the operation of sound waves on the human ear, and the operation of various types of hearing devices which aid the deaf.

Your ears (Motion picture) Young America Films, 1947.

10 min., ed., b&w, 16 mm.
Adapted from the 1945 British motion picture, *Your children's ears*.
With teacher's guide.
Summary: Explains and illustrates the structure and function of the ear and its component parts. Shows through animation, how sound waves are received and transmitted to the brain by the ear. Shows the effects of noise upon the human ear. For elementary grades and high school.

Your eyes (Motion picture) Young America Films, 1947.

10 min., ed., b&w, 16 mm.
Adapted from the 1945 British motion picture *Your children's eyes*.
With teacher's guide.
Summary: Explains and illustrates the structure and function of the eye and its component parts; diagrams are used to explain certain of the causes and corrections of near-sightedness and far-sightedness. For elementary grades and high school.

Your teeth (Motion picture) Young America Films, 1947.

10 min., ed., b&w, 16 mm.
Adapted from the 1945 British motion picture *Your children's teeth*.
With teacher's guide.
Summary: Illustrates and explains the structure, development, and care of the teeth. Shows how and why a tooth decays and describes proper methods of brushing the teeth. Includes animation. For elementary grades and high school.

BOTANY

Better seeds for better grasslands (Motion picture) U. S. Dept. of Agriculture, 1955.

22 min., ed., color, 16 mm.
Summary: Emphasizes the importance of improved varieties of legume and grass seeds and proper management in the improvement of grasslands.

BOTANY

Blooming desert (Motion picture) Guy D. Haselton Productions. Released by Bailey Films, 1947.

10 min., ed., color, 16 mm. (Western wonderland series)
Summary: Close-up photographs of wild flowers in the deserts of western United States.

Citrus culture (Motion picture) Paul Hoeller Productions. Released by Sales Division, 1954.

17 min., ed., color, 16 mm. (American agriculture)
With study guide.
Summary: Depicts modern methods of citrus culture used in nurseries and citrus groves of the United States.

Daffodils (Motion picture) United Specialists, Inc., 1944.

3 min., ed., color, 16 mm.
Summary: Varieties of daffodils (from one garden).

Dispersal of seeds (Motion picture) Edited Pictures System, 1927.

10 min., ed., b&w, 16 mm.
Summary: Means of motivation with which seeds are equipped to depart from parent plant and travel to new fields of reproduction. Appendages, none grotesque, some beautiful. How flowers develop to perfection under expert cultivation.

Flowering desert (Motion picture) Guy D. Haselton Productions. Released by Bailey Films, 1952.

11 min., ed., color, 16 mm. (Western wonderland series)
With study guide.
Summary: Locates the principal desert areas of the world on a map and illustrates them with a series of motion picture scenes. Explains the nature and characteristics of desert climate and topography, and shows how spring brings a myriad of wild flowers to arid regions. Isolates typical desert birds and animals to their surroundings.

Flowers at work (Motion picture) Electrical Research Products, 1951. Released by Encyclopedia Britannica Films.

11 min., ed., b&w, 16 mm.
With film guide.
Summary: Explains the main function of flowers as that of producing seeds. Animated drawings describe the structure and functions of the sepal, petal, stamen, pistil, pollen, style, and ovary. Close-up and slow-motion photography depicts different methods of pollination of various types of flowers and reveal the work of the bee in cross-pollination. For elementary grades, high school, and adult groups.

Fungus plants (Motion picture) Electrical Research Products, 1951. Released by Encyclopedia Britannica Films.

10 min., ed., b&w, 16 mm.
Other version titled: French.
With teacher's guide.
Summary: Reveals major types of mushrooms and other fungi, and describes their growth and method of reproduction. Close-up photography portrays several varieties of poisonous and edible plants, and animated drawings illustrate the structure of the gills. Through cinematography, studies the structure of spores and the streaming protoplasm in the filament. Time-lapse photography demonstrates rapid growth.

BOTANY

Gift of green (Motion picture) Sugar Research Foundation in collaboration with the New York Botanical Garden. Made by Elinor Films. Released by Modern Talking Picture Service, 1946.

10 min., ed., color, 16 mm.

With teacher's guide.

Summary: Describes step-by-step how all green plants use energy from the sun, air, and water to make sugar—the process of photosynthesis, and explains the importance of this process in our daily lives.

The growth of flowers (Motion picture) Coronet, 1915.

11 min., ed., color, 16 mm.

With teacher's guide.

Summary: Time-lapse photography shows the miracle of growth. Presents the rose, orchid, jack-in-the-box, daffodil, and the sprouting from the ground, growing, bursting into bloom, and dying. For primary, intermediate, and high school grades and college groups.

Hereditary variations in coleus (Motion picture) Dept. of Botany, Ohio State University. Made and released by Dept. of Photography, 1939.

11 min., ed., color, 16 mm.

With teacher's guide.

Summary: Time-lapse photography shows the growth of coleus plants. Shows how a single plant can produce many different colors and patterns. Explains the role of heredity in the growth of plants.

How beans grow (Motion picture) Edited Pictures System, 1927.

10 min., ed., b&w, 16 mm.

Summary: Complete life-cycle of bean plant, from planting to harvesting.

How plants help us: observing things about us (Motion picture) Coronet Instructional Films, 1951.

11 min., ed., color, 16 mm.

With teacher's guide.

Summary: A young boy bicycling to his uncle's farm observes the plants around him and discovers that plants are helpful in many ways. Explains that people are dependent upon plants for food, clothing, wood, paper, rubber, and many other common articles important in their daily lives.

—Another issue. b&w.

How seeds germinate (Motion picture) U. S. Dept. of Agriculture, 1931.

10 min., ed., b&w, 16 mm.

Summary: Shows by means of time-lapse photography the germination of crimson clover and spring vetch over periods of 3 to 7 days.

—Another issue. 35 mm.

Life of a plant (Motion picture) Encyclopedia Britannica Films, 1950.

11 min., ed., color, 16 mm.

With teacher's guide.

Summary: Time-lapse photography shows the life cycle of a typical flowering plant, the pea. Identifies the roles of roots, stems, leaves, flower, fruit, and seed. Animated drawings reveal the functioning of the various parts of the plant.

Miracle of the trees (Motion picture) International Film Bureau, Inc., 1951.

10 min., ed., color, 16 mm.

Summary: How trees buds grow, burst open, release leaves and flowers (time-lapse photography).

Mold and yeast (Motion picture) Eastman Teaching Films, 1950. Released by Encyclopedia Britannica Films.

8 min., ed., b&w, 16 mm.

Summary: Photomicrographic shots of specimens of mold on fruit, leather, clothes, and bread, illustrate the way in which molds grow, develop, and germinate. Shows also the formation of buds and new plants of moldlike yeast.

Movements of some common plants (Motion picture) University of Iowa. Made and released by Rutgers Films, 1940.

14 min., ed., b&w, 16 mm. (Unlabeled film)

Summary: Time-lapse views showing constant movement of plants due to various external and internal factors. Shows that such movements are caused by changes in temperature and light intensity, and are produced by turgor changes in a special structure called the pulvinus, located at the base of the leaves. Plants used are trifolium, wild carrot, garden pea, cucumber tendril, mushroom, blood root, marsh mallard, and night-blooming cereus.

A parasitic plant (Motion picture) Electrical Research Products, 1951. Released by Encyclopedia Britannica Films.

10 min., ed., b&w, 16 mm.

Summary: Describes the characteristics and life cycle of a typical parasitic plant, the dodder. Close-up and time-lapse photography reveal the flower with its ovary and seeds, and the movements of the dodder as it grows, grows about, attacks, and entwines other plants. Chromatography demonstrates structure of the dodder, and animated drawings portray their parasitic action on a host plant.

Plant growth (Motion picture) Encyclopedia Britannica Films, Inc., 1939.

11 min., ed., b&w, 16 mm.

Summary: Life cycle of pea plant. Time-lapse, close-up and time-lapse photography show seed germination, growth, opening of flower, floral parts, cross-fertilization, swelling of protoplasm in pollen tubes. Animated drawings illustrate process of fertilization.

Plant growth and mutation in Tradescantia virginiana L. spiderwort (Motion picture) Phase Films, 1953.

11 min., ed., b&w, 16 mm.

Summary: Describes time-lapse cinematography through the phases of growth, seedling, and flowering. Demonstrates the dispersal of seeds by wind, transportation of animals, and propagation from seed rain. Describes methods by which plants are selected, and outlines methods by which seeds are selected for use in plant breeding.

Plant oddities (Motion picture) International Film Bureau, 1950.

10 min., ed., color, 16 mm.

Summary: Plants that seem to live on air, devour insects, have sensitive "nervous" systems which react to heat, cold, fumes, alcohol. "Ball of the Flowers" (sequence of dancing flowers in rhythm with Strauss waltz).

Plant traps (Motion picture) William M. Harlow. Released by Encyclopedia Britannica Films, 1954.

10 min., ed., color, 16 mm.

Summary: Photographs of insect catchers of the bog jungle. With teacher's guide. **Summary:** A study of the pitcher plant, the sundew, and the Venus flytrap—three insect-devouring plants which are found in poorly drained ponds. Time-lapse photography shows the operation of their trapping mechanism.

—Another issue. b&w.

Plants make food (Motion picture) Churchill-Wooder Film Productions, 1955.

11 min., ed., b&w, 16 mm.

Power of plants (Motion picture) Almanac Films, Inc., 1951.

10 min., ed., b&w, 16 mm.

Summary: Plants' indomitable effort to reach sun and fulfill growth. They overcome obstacles: weighted glass covers, layers of tinfoil, tightly corked glass jars (time-lapse photography).

Roots of plants (Motion picture) Electrical Research Products, 1951. Released by Encyclopedia Britannica Films.

11 min., ed., b&w, 16 mm.

Summary: Describes tap, fasciated, and fibrous roots, and explains how they not only hold the plant in place but also absorb food elements from the soil. Through time-lapse photography, chromatography, anatomical drawings, and laboratory experiments, demonstrates food growth, sensitivity, wounding away of cells, and osmosis. Shows how fibrous roots store excess starch in their roots for use as food the second year.

Seasonal changes in trees (Motion picture) Coronet, 1949.

11 min., ed., color, 16 mm.

Summary: With teacher's guide. **Summary:** Careful study the common trees near their school and note the seasonal changes which occur in the different varieties. For primary and intermediate grades, high school and adult groups.

—Another issue. b&w.

Seed dispersal (Motion picture) Electrical Research Products, 1951. Released by Encyclopedia Britannica Films.

11 min., ed., b&w, 16 mm.

Summary: Considers various means by which seeds are disseminated, and how they protect themselves. Demonstrates the dispersal of seeds by wind, transportation of animals, and propagation from seed rain. Describes methods by which plants are selected, and outlines methods by which seeds are selected for use in plant breeding.

CHEMISTRY

Seeds grow into plants (Motion picture) Coronet Instructional Films, 1954.

10 min., ed., color, 16 mm.

Summary: A group of children visit a park where they see a great variety of plants. Learn how various types of seeds are disseminated, study the structure of seeds, and observe how they change under the influence of moisture, sunlight, and soil nutrients as they grow into plants.

Spring blossoms (Motion picture) International Film Bureau, Inc., 1951.

10 min., ed., color, 16 mm.

Summary: Spring blossoms (Florida to Pacific northwest of the United States), wild flowers (time-lapse photography).

Time-lapse studies of flowers (Motion picture) Rutgers University. Released by State University of Iowa.

15 min., ed., color, 16 mm.

Summary: Flower stalk of common snake-plant grows to full height and bursts into bloom; rose opens. Heliotrope, anemone, pansy and begonia develop flowers. Flower tubes of tobacco plant elongate to form star-shaped clusters. Chinese iris does a floral dance. Geranium unfolds petals.

Wonders of plant growth (Motion picture) Churchill-Wooder Film Productions, 1953.

10 min., ed., color, 16 mm.

Summary: A girl and her younger brother experiment with plants. They grow plants from a bean and a squash seed, the stem of a geranium, the leaf of a succulent, and the root of a sweet potato plant. Shows the growth through time-lapse photography.

—Another issue. b&w.

CHEMISTRY

Antibiotics (Motion picture) Encyclopedia Britannica Films, 1952.

14 min., ed., b&w, 16 mm.

Summary: A study of the discovery, nature, and uses of antibiotics, chemical substances which are produced by microbes and used to inhibit the growth of harmful bacteria in living organisms.

Antibiotics and terramycin (Motion picture) Charles Pfizer & Company, Inc., 1952.

22 min., ed., color, 16 mm.

The atomic alchemist (Motion picture) Handel Film Corp., 1954.

13 min., ed., b&w, 16 mm. (The magic of the atom, no. 13)

Summary: Produced with the technical assistance of the U. S. Atomic Energy Commission and the Atomic Energy Project at U. C. L. A., **Summary:** Illustrates the use of chemistry in the atomic age, and explains how products of atomic energy are opening new fields in chemistry. Shows the effect of reactions on liquids and solids, and explains the relevance of these reactions to the search for new elements.

CHEMISTRY

Aureomycin: the versatile antibiotic (Motion picture) Lederle Laboratories Division, American Cyanamid Co. Made by Foriel Films, 1950. Released by American Cyanamid Co. Film Library, Lederle Laboratories Division.
20 min., ed., color, 16 mm.
Summary: Shows the screening of soil specimens for organisms which may possess powers of bacterial antagonism, and the selection of streptomycin derivatives for its broad spectrum antibiotic. Describes the clinical use of aureomycin. For students of the medical sciences.

Balances: platform and triple beam (Motion picture) University of Southern California, 1947.
10 min., ed., color, 16 mm.
Summary: Explains the platform and triple beam balances and shows how to use them.

Carbon and its compounds (Motion picture) Coronet Instructional Films, 1948.
11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Explains the simple compounds of carbon, and introduces hydrocarbons and the more complex chain and ring compounds. Shows the many forms and uses of carbon and its importance in our domestic and industrial world.
—Another issue. b&w.

Catalysis (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1937.
10 min., ed., b&w, 16 mm.
Summary: Presents a study of catalysis as the fourth factor in the velocity of chemical reactions. Explains how catalysts may function by absorbing molecules, altering molecules, forming an intermediate compound, or starting a chain reaction. Illustrates application of negative catalysts in the manufacture of rubber and anti-knock gasoline. Calls attention to the relation of catalysts to plant and animal life.

Chemical reactions (Motion picture) Edited Pictures System, 1938.
20 min., ed., b&w, 16 mm.
Summary: Detailed exposition of composition of atom and relationship between nucleus and electrons as exemplified in 82 elements assembled in groups of "The Periodic Table". Elucidates nature of chemical combinations and reactions.

Chemical instruments—the colorimeter (Motion picture) University of Southern California, 1951.
14 min., ed., color, 16 mm.

Chemistry and a changing world (Motion picture) Encyclopedia Britannica Films, 1955.
11 min., ed., b&w, 16 mm.
Second edition.
With teacher's guide.
Summary: Explains the role of the research chemist in developing new products and portrays the skill of the chemical engineer in planning, constructing, and operating a production plant. Illustrates the value of chemistry in modern life by describing the production and utilization of elemental phosphorus.

Chemistry of combustion (Motion picture) Edited Pictures System, 1938.
10 min., ed., b&w, 16 mm.
Summary: Simplified combustion; more complex phases. Experiments illustrate combustibility of different elements; dangers of combustion experiments. Scientific methods helpful in reducing accidents and fires.
—Another issue. silent.

The clothes we wear (Motion picture) Churchill-Wesley Film Productions, 1955.
11 min., ed., color, 16 mm.
Summary: Discusses animal, plant, and synthetic fibers; contrasts primitive and modern methods of spinning thread and weaving cloth; and points out the abundance and value of the clothes we wear.
—Another issue. b&w.

Colloids (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1937.
11 min., ed., b&w, 16 mm.
Summary: Explains the concept of colloidal state and portrays examples of different types of colloids. Defines colloidal state in terms of particle size. Shows differences between colloids and true solutions. Illustrates factors that prevent particle growth and techniques used to coagulate colloids. Explains how particle size affects filtration and sedimentation. Demonstrates Tyndall effect, Brownian movement, cataporesis, and the Cottrell process.

Corrosion (Motion picture) Allegheny Ludlum Steel Corporation, 1946.
14 min., ed., color, 16 mm.
Summary: Illustrates film mechanism by which stainless steels resist corrosive attack (an oxidation).

Corrosion proof (Motion picture) Allegheny Ludlum Steel Corporation, 1949.
10 min., ed., color, 16 mm.
Summary: Electro-chemical testing shows how stainless steels resist corrosive attack.

Curiosity shop (Motion picture) Aluminum Co. of America, 1949. Made by Wilding Picture Productions.
30 min., ed., color, 16 mm.
Technicolor.
Script by Unpublished authors.
Summary: A story of free enterprise told against the background of a marketplace which is complicated by the young man's absorption in science to the temporary exclusion of his fiancée. Emphasizes the work of industrial scientists who, through research, endeavor to make aluminum more useful.

The Du Pont story (Motion picture) E. I. Du Pont de Nemours, 1951. Made by Apex Film Corp.

30 min., ed., color, 16 mm.
Technicolor.
Short version.
Summary: Presents highlights in the history of the Du Pont Company from its founding 150 years ago to the present day (1951) emphasizing the administrations of Du Pont's ten presidents as chapters for telling the story. Shows the development of such products as the blasting agent, soda powder, nylon, rayon, cellophane, and Duro lacquer. Depicts Thomas Jefferson in 1800 encouraging the young immigrant, Eleuthère Irénée du Pont, to establish the company.

Electrochemistry (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1937.
11 min., ed., b&w, 16 mm.
With film guide.
Summary: Retells, through demonstrations and animated drawings, how chemical energy may be transformed into electrical energy and electrical energy into chemical energy. Shows that chemical energy changes into electrical energy when chlorine and hydrogen react at platinum electrodes, and that electrical energy changes into chemical energy decomposing hydrogen chloride. Illustrates those electrochemical principles by application in electroplating, electrolysis, electrolysis, and storage battery operation. For high school, college, and adult groups.

The halogens (Motion picture) Coronet, 1947.
11 min., ed., color, 16 mm.

Kodachrome.
With teacher's guide.
Summary: Analyzes in a laboratory demonstration, the physical and mechanical properties of fluorine, chlorine, bromine, and iodine, and their compounds. Reduces the speed of experiments through slow-motion cameras so that every detail is shown.
—Another issue. b&w.

Harnessing the rainbow (Motion picture) E. I. du Pont de Nemours, 1947. Made by Sound Masters.
20 min., ed., color, 16 mm.

Summary: Shows how colors are applied to fabrics, and emphasizes color fastness in relation to washing, sunlight, and perspiration. Explains how laboratory tests are used to determine the fastness of a dye.

Inside the cell. Part 2: Regulation of enzymes (Motion picture) U. S. Dept. of the Army, 1952. Released for public educational use through U. S. Office of Education, 1952.
43 min., ed., color, 16 mm.
Order no. PMF 6077-b.
Summary: Explains the factors regulating enzyme action; shows a laboratory demonstration of feeding radioactive acetate to rats; discusses the effects of drugs on enzymes, the action of antibiotics, and the action of penicillin and streptomycin on the chemical action inside a cell.

Introduction to chemistry (Motion picture) Coronet, 1949.
11 min., ed., color, 16 mm.
With teacher's guide.
Summary: Defines the term chemistry and introduces some of the important terms and materials common to the subject. Major industrial applications of chemistry are presented as well as the everyday uses found in the home and on the farm. For junior and senior high school, college, and adult groups.
—Another issue. b&w.

CHEMISTRY

Magic in agriculture (Motion picture) Ethyl Corporation, 1947.
26 min., ed., b&w, 16 mm.

Summary: Farm chemistry: what it has accomplished and what it promises to accomplish for American farmers. Places of scientists in relation to farmers' research projects developed and turned into commercially profitable production.

Nitrogen cycle (Motion picture) Eastman Kodak Co. Teaching Film Division, 1938. Released by Encyclopedia Britannica Films.
11 min., ed., b&w, 16 mm.

Summary: Shows the relation of nitrogen to plant and animal growth. Scenes describing the formation of natural fertilizers and commercial fertilizers explain the nitrogen cycle through living and non-living things.

Origin and synthesis of plastic materials (Motion picture) U. S. Office of Education, 1945. Produced by Coronet Films.
10 min., ed., b&w, 16 mm. (Fascicle series, no. 3)
Order no. OE 496.
With teacher's manual. Supplementary filmstrip of same title also available.
Summary: Origin of plastic materials and the resemblance of synthetic compounds to natural substances; synthesis of plastic from natural substances; forms in which plastics are produced; and typical plastic products.
—Another issue. b&w.

Oxidation and reduction (Motion picture) University of Chicago, 1932. Released by Encyclopedia Britannica Films.
11 min., ed., b&w, 16 mm.

Summary: As introduction to the phenomena of chemical change. Demonstrates that oxidation and reduction occur simultaneously. Shows that in the burning of phosphorus and the rusting of iron the emphasis is on reduction. Illustrates the hydrogen torch, blast furnace, thermite process, and burning of fuel as common examples of chemical change.

Oxygen (Motion picture) Coronet Instructional Films, 1947.
11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Through laboratory experiments, develops the characteristics, uses, and significance to man of oxygen and its compounds. Surveys the preparation, properties, and characteristics of this element, and explains electrolysis, oxidation, forms of oxygen, etc.
—Another issue. b&w.

Plastics (Motion picture) Young America Films, 1945.
10 min., ed., b&w, 16 mm.

With teacher's guide.
Summary: Describes the development of celluloid, jute, and nylon compounds; illustrates steps in the manufacture of plastics; and shows the growth of the plastics industry. For high school and college groups.

CHEMISTRY

Preface to chemistry (*Motion picture*) Encyclopaedia Britannica Films, 1950.

16 min., ed., color, 10 mm.

Kodachrome.

With teacher's guide. Summary: Describes the work of Joseph Priestley and Antoine Lavoisier in the field of chemistry; defines organic, inorganic, and physical chemistry; shows experiments which illustrate the chemical techniques of synthesis, decomposition, and analysis.

Science of soap (*Motion picture*) Encyclopaedia Britannica Films, 1948.

11 min., ed., b&w, 16 mm.

Previously released under the title Soap.

Summary: Through a simple laboratory demonstration illustrates how the acid and alkali are combined to make soap; through animated drawings explains the chemical action (saponification) which takes place when the mixing occurs; through drawings describes the cleaning action of soap. Features each step in the manufacture of soap in a large industrial plant.

A story of research (*Motion picture*) E. I. du Pont de Nemours & Co. Made by Apex Pictures. Released by Movies U. S. A., 1952.

18 min., ed., color, 16 mm.

With descriptive literature.

Summary: Shows how a chemical research project is started and completed. Follows the development of arlon acrylic fiber from its inception through various stages of failure, refusal, testing, and retreating to ultimate success.

Story of sulphur (*Motion picture*) Edited Pictures System, 1955.

10 min., ed., b&w, 16 mm.

Summary: Shows how a chemical research project is started and completed. Follows the development of arlon acrylic fiber from its inception through various stages of failure, refusal, testing, and retreating to ultimate success.

—Another issue. silent.

A study in black (*Motion picture*) Goldrey L. Cabot, Inc., 1950. Made by Carvel Films.

20 min., ed., color, 16 mm.

Kodachrome.

Summary: Presents the story of carbon black from its basic mechanical structure shown through technical animation and close-up photography to its actual production in the Cabot plants. Shows some of the industrial applications of carbon black.

Sulphur and its compounds (*Motion picture*) Coronet Instructional Films, 1945.

11 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Outlines the part played by sulphur in modern industrial processes, and mentions developments in the element's history. Illustrates the properties of sulphur and its compounds, and includes an explanation of modern sulphur mining.

—Another issue. b&w.

Velocity of chemical reactions (*Motion picture*) Epi Picture Consultants (later name Encyclopaedia Britannica Films) 1957.

11 min., ed., b&w, 16 mm.

Summary: Illustrates how the nature, concentration, and temperature of reacting substances affect the velocity of chemical reactions. Through laboratory experiments and animated drawings, demonstrates the effect of these factors on the rate of reaction. Through molecular models, spheres of influence, and illustrative energy. Through animation explains reversible reactions and the abstract processes of chemical equilibrium.

The wonder of chemistry (*Motion picture*) Leonard Peck Productions. Released by Young America Films, 1949.

11 min., ed., b&w, 16 mm.

With teacher's guide.

Summary: Discusses and explains elements, compounds, and chemical changes. Shows that through chemistry we are able to improve the world in which we live. For elementary grades.

DENTISTRY

About faces (*Motion picture*) U. S. Public Health Service, 1941. Made by Sound Masters.

10 min., ed., b&w, 16 mm.

Summary: Emphasizes the importance of good teeth, particularly in relationship to one's appearance; and of care of the teeth, particularly the necessity of regular visits to a dentist.

Acrylic jacket crown construction (*Motion picture*) U. S. Dept. of the Navy, 1948. Produced by De France. Released for public educational use through U. S. Office of Education, 1950.

35 min., ed., color, 16 mm.

Order no. MN 5211.

Summary: Preparation of tooth for a jacket crown; laboratory work in preparation of the crown; fitting and polishing the crown. For dental personnel.

Alveolotomy after multiple extraction of teeth (*Motion picture*) U. S. Dept. of the Army, 1952.

6 min., ed., color, 16 mm. (Dento-alveolar surgery series)

Order no. PMP 5217.

Summary: Shows teeth with advanced periodontal disease being extracted, and presents the conservative preparation of the alveolar ridge for dentures by demonstrating surgical procedures for establishing a ridge of uniform height with smooth even contours after multiple extraction of teeth. For dental personnel.

Alveolotomy and multiple pathology (*Motion picture*) U. S. Dept. of the Army, 1952.

18 min., ed., color, 16 mm. (Dento-alveolar surgery series)

Order no. PMP 5219.

Summary: Demonstrates problems in the removal of teeth from pathological bone and in the proper repair of ridge tissue. For dental personnel.

Alveolotomy in extraction of isolated teeth (*Motion picture*) U. S. Dept. of the Army, 1952.

11 min., ed., color, 16 mm. (Dento-alveolar surgery series)

Order no. PMP 5218.

Summary: Demonstrates the extraction of isolated teeth, and presents a method of ridge preparation for dentures with a minimal action of the supporting alveolar bone. Shows a dental bridge being made. For dental personnel.

Benign dental tumors (*Motion picture*) U. S. Dept. of the Army, 1950.

20 min., ed., color, 16 mm.

Order no. PMP 5219.

Summary: Gives the history, diagnosis, characteristics, treatment, and results of various cases of benign dental tumors. For professional personnel.

The casting of dental gold alloys: Thermal expansion technique (*Motion picture*) U. S. National Bureau of Standards in cooperation with Council on Dental Research, American Dental Association, 1951.

10 min., ed., color, 16 mm.

Summary: Explains that the fabrication of accurately fitting dental castings is dependent upon proper selection and use of materials. Covers the prevention of warpage of wax patterns, selection and attachment of the spruing, leveling, eliminating the wax pattern, and melting and casting the alloy. For dental personnel.

Complete dentures: Alginate impressions (*Motion picture*) U. S. Dept. of the Navy, 1951. Produced by Byron's. Released for public educational use through U. S. Office of Education, 1952.

17 min., ed., color, 16 mm.

Order no. MN 5220.

Summary: Illustrates the technique for non-pressure full denture impressions using alginate (irreversible hydrocolloid) in loose fitting, perforated facemask tray.

Complicated exodontia, introduction (*Motion picture*) U. S. Dept. of the Navy, 1951. Produced by Byron's. Released for public educational use through U. S. Office of Education, 1952.

17 min., ed., color, 16 mm.

Order no. MN 5221.

Summary: Deals with the fundamental procedure involved in the successful removal of all teeth; gives particular attention to those teeth which require more than the use of force alone for extraction; and demonstrates the basic principles underlying a proposed plan for treatment.

Construction of an acrylic jacket for use in an abutment or an individual crown (*Motion picture*) Gilbert W. Schwartz, 1948.

30 min., ed., at. ed. speed, color, 16 mm.

Summary: Shows the complete operative and laboratory procedures in the manufacture of an acrylic crown. For dentists, dental students, and technicians.

DENTISTRY

Decompression of the gaseric ganglion and posterior root in the treatment of trigeminal neuralgia (*Motion picture*) Robert Dean Woolsey, M.D., 1954.

23 min., ed., b&w, 16 mm.

—Another issue. silent.

—Another issue. color.

Dental amalgam: Failure caused by moisture contamination (*Motion picture*) U. S. National Bureau of Standards in cooperation with Council on Dental Research, American Dental Association, 1948.

12 min., ed., color, 16 mm.

Summary: Demonstrates contamination with moisture, one of the common causes of amalgam failure, usually produced by mixing amalgam in the palm of the hand and by condensing amalgam in a wet field. Explains the chemical reactions in and the clinical results of such contamination. Describes a satisfactory technique for the prevention of contamination. For dental personnel.

Dental assistants, their effective utilization (*Motion picture*) U. S. Public Health Service, 1952. Made by De France Co.

20 min., ed., color, 16 mm.

Summary: Shows how a dentist, through the use of trained assistants, can give better service to his patients and reduce his own fatigue.

Dental burs in action (*Motion picture*) U. S. National Bureau of Standards, 1955.

10 min., ed., color, 16 mm.

Summary: Explains the ability of different types of dental burs to cut hard and soft tooth structures, the achievement of rapid cavity preparation with a minimum of discomfort to the patient, and the need for selection of the proper cutting instrument. For dental personnel.

Dental health (*Motion picture*) U. S. War Dept., 1945.

24 min., ed., b&w, 16 mm.

Order no. TF 8-2000.

Summary: Reviews what research and experimentation have done to promote better dental health. Demonstrates new modern fluoride applications and techniques of oral hygiene to show the relation of diet to the development and decay of teeth. For intermediate grades, high school and adult groups.

Dental health: How and why (*Motion picture*) Coronet, 1949.

11 min., ed., color, 16 mm.

With teacher's guide.

Summary: Reviews what research and experimentation have done to promote better dental health. Demonstrates new modern fluoride applications and techniques of oral hygiene to show the relation of diet to the development and decay of teeth. For intermediate grades, high school and adult groups.

—Another issue. b&w.

DENTISTRY

Denture resin (Motion picture) U. S. National Bureau of Standards in cooperation with Council on Dental Research, American Dental Association, 1949.

18 min., ed., color, 16 mm.

Summary: Shows the effect of impurities, pressure, temperature, rate of curing, direction of curing, mold surfaces, and water content on the dimensional accuracy and stability of dentures made from acrylic resins. Demonstrates denture-processing techniques. For dental personnel.

Denture service (Motion picture) Minnesota University Audio-Visual Education Service, 1950.

45 min., ed., color, 16 mm.

Summary: Shows a type of denture which was developed by the Dental Dept. of the University of Minnesota in 1950. Describes the anatomy of the mouth showing upper and lower ridges and the area to be covered. Shows the impression technique step-by-step, from the starting of the modeling compound in the mouth through post-tanning, muscle trimming, and plaster wash. Points out that the natural relationship of the upper to the lower jaw is preserved by means of facial plates, and an edge of plaster and carboxymethyl cellulose is applied to grind there is a perfect fit. Explains that after grinding, the final plates are locked together, removed from the mouth, and used for a model in setting up the teeth. Depicts the patient with both the old and new types of denture.

Examining the oral cavity (Motion picture) School of Dentistry, University of Minnesota, 1950.

45 min., ed., color, 16 mm.

Summary: Presents many oral lesions with their diagnoses; outlines an orderly procedure for collecting data pertinent to the planning of treatment. For dentists.

Excision of chronic periapical infections (Motion picture) U. S. Dept. of the Army, 1952.

8 min., ed., color, 16 mm. (Dento-alveolar surgery series)

Order no. PAF 5101.
Summary: Demonstrates the excision of chronic periapical infection. Shows an epithelioma which proved to be a cyst. For dental personnel.

Excision of gingival hypertrophy (Motion picture) U. S. Dept. of the Army, 1952.

8 min., ed., color, 16 mm. (Dento-alveolar surgery series)

Order no. PAF 5221.
Summary: Shows how tissue found in the anterior portion of the maxillary ridge is excised in preparation of a firm base for the denture.

Excision of mandibular tori (Motion picture) U. S. Dept. of the Army, 1952.

12 min., ed., color, 16 mm. (Dento-alveolar surgery series)

Order no. PAF 5220.
Summary: Shows the surgical excision of the tubercles lingual to the mandibular third molars, followed by the excision of bilateral mandibular tori in the bicuspid area, in preparation of the ridge for a denture.

Fluoridation (Motion picture) U. S. Public Health Service, 1953.

5 min., ed., color, 16 mm.

Summary: Describes the research on which fluoridation is based, the benefits obtained by adding fluoride to community water supplies, and the method of adding fluoride. Uses the filmgraph technique.

— Another issue. b&w.

Fluoridation story (Motion picture) U. S. Public Health Service, 1951.

3 min., ed., color, 16 mm.

Summary: Explains that communities can reduce tooth decay by adding sodium fluoride to the water supply, and emphasizes the economy and simplicity of doing so. Uses the filmgraph technique.

Immediate denture service (Motion picture) University of Minnesota, 1937.

60 min., ed., color, 16 mm.

Summary: Construction of immediate upper and lower dentures from beginning diagnosis through insertion of completed denture. Surgery and extractions shown.

The life of your artificial denture (Motion picture) Artwil Co. Released by American Dental Association, 1938.

15 min., ed., b&w, 16 mm.

Summary: Shows how oral reception alters the relationship of jaws and dentures, causing loss of masticatory efficiency, defective hearing, tongue interference, inability to open the mouth properly, loss of muscle tone, and facial changes.

Mandibular prognathism (Motion picture) U. S. Veterans Administration, 1950.

43 min., ed., color, 16 mm.

Summary: Demonstrates the two-stage operation for the correction of a mandibular prognathism. Shows in considerable detail pre-operative and post-operative studies as well as the two stages of the operation (Huguenin procedure). Includes inserts of X-ray studies and medical sketches demonstrating various stages in the surgical procedure.

A method of mixing silicate cement (Motion picture) U. S. National Bureau of Standards in cooperation with Council on Dental Research, American Dental Association, 1953.

8 min., ed., color, 16 mm.

Summary: Demonstrates a new method of mixing silicate cements to a closed container whereby the maximum amount of powder is incorporated into a given quantity of liquid independent of atmospheric conditions. Actual reactions to the mouth show how these laboratory findings may be used in dental practice. For dental personnel.

Oral rehabilitation (Motion picture) Veterans Administration, 1954.

29 min., ed., color, 16 mm.

Order no. M 153.

Partial dentures and bridges (Motion picture) Artwil Co. Released by American Dental Association, 1933.

15 min., ed., b&w, 16 mm.

Summary: Demonstrates, in models, how teeth shift after the loss of a tooth, and how pyramidal and further tooth loss follow. Shows various types of bridges and partial dentures, and demonstrates how their use can prevent serious dental destruction.

Partial dentures: Biomechanics (Motion picture) U. S. Dept. of the Navy, 1951. Produced by Byronck. Released for public educational use through U. S. Office of Education, 1952.

15 min., ed., color, 16 mm.

Summary: Demonstrates the influence of forces of mastication on the design of partial dentures by dividing parts of partial dentures into bracing, supporting, and retaining elements. Emphasizes the pertinent construction details.

Periodontitis (Motion picture) U. S. Dept. of the Navy, 1948. Produced by De Fries. Released for public educational use through U. S. Office of Education, 1950.

19 min., ed., color, 16 mm.

Order no. M 5090.
Summary: Surgical technique for cases not requiring removal of teeth; preparation of patient; instruments required; anesthesia, operative routine, and postoperative treatment. For dental personnel.

Porcelain jacket crown technique (Motion picture) U. S. National Bureau of Standards, in cooperation with Council on Dental Research, American Dental Association, and the University of Montevideo, Uruguay, 1955.

24 min., ed., color, 16 mm.

Summary: Describes in detail a simplified method of making fused porcelain jacket crowns. Discusses the use of a perforated porcelain veneer made from a stock tooth, and the use of two porcelain having widely different fusion temperatures. Explains that in this technique fusion shrinkage has been greatly reduced and the number of fusions has been cut from the customary four or five to two.

Preparation of the mouth for dentures (Motion picture) School of Dentistry, University of Minnesota, 1951.

33 min., ed., color, 16 mm.

Summary: Shows a series of operations performed upon the hard and soft tissues of the mouth to prepare better bases for the reception of prostheses. Includes post-operative views of all cases. For dental purposes.

Radiodontics: Intra-oral technique (Motion picture) State University of Iowa, 1950.

23 min., ed., b&w, 16 mm.

Summary: Complete procedure, using 18 inch film target distance, for making periapical radiographs of left half of maxilla and mandible, interproximal radiographs of each interproximal space on left side of arches. Horizontal and vertical angulations of x-rays emphasized by animation. Processing procedure carried through to completion. Principles of diagnostic x-ray technique correlated with actual performance of techniques.

Removal of an impacted mandibular third molar by controlled sectioning (Motion picture) U. S. Dept. of the Army, 1952.

10 min., ed., color, 16 mm. (Dento-alveolar surgery series)

Order no. PAF 5180.
Summary: Presents the technique utilizing a bar and fat blade elevator for controlled sectioning of impacted teeth as demonstrated on a simple mesio-angular lower third molar. Step by step X-rays illustrate the principles involved. For dental personnel.

DENTISTRY

Removal of impacted teeth (Motion picture) School of Dentistry, University of Minnesota, 1950.

24 min., ed., color, 16 mm.

Summary: Illustrates a technique for removal of impacted upper and lower third molars, upper cuspid, and lower bicuspid. Shows the usefulness of both clinical and dental. For dentists, dental students.

Root resection (Motion picture) Scientific Film Company, 1949.

22 min., ed., color, 16 mm.

Summary: Indications for use of root resection in treatment of periodontal disease. Entire surgical procedure shown on patient with slight tooth involvement, and on patient with involvement of all four lower incisors. Radiographic findings, sterile technique, post-operative results.

— Another issue. silent.

Silicate cement (Motion picture) U. S. National Bureau of Standards, 1947.

18 min., ed., color, 16 mm.

Summary: Demonstrates the importance of incorporating rapidly as much powder as possible into a given quantity of liquid and of protecting the cement from loss or gain of water throughout the hardening period. Shows the effect of technique on such cement properties as setting time, strength, shrinkage, solubility, and staining. For dental personnel.

The smiles have it (Motion picture) Bailey Films, 1940.

10 min., ed., b&w, 16 mm.

Summary: Emphasizes dental care, and precision. Mary and Tommy visit their dentist. By means of plaster models and drawings, Mary is shown what it means to have a cavity. Tommy reads a book which shows the relationship between the teeth of man and those of various animals. A visit to the zoo emphasizes what the children have learned in their visit to the dentist.

Surgical gingivectomy (Motion picture) Scientific Film Company, 1948.

55 min., ed., color, 16 mm.

Summary: Surgical treatment of periodontal diseases; examination, prophylaxis, pre-operative care, surgery, post-operative treatment, home care, and results. Construction of special appliances for correction of bruxism, tooth mobility, poor occlusion.

Target tooth decay (Motion picture) University of Oklahoma, 1952.

11 min., ed., color, 16 mm.

Summary: Explains the value of modern dental care, with emphasis on sodium fluoride treatment. Shows how local and state health departments, dentists, and the public can cooperate in improving dental health by establishing a program which includes the individual application of sodium fluoride and the adequate fluoridation of the city water supply.

— Another issue. b&w.

DENTISTRY

Technique of analysis, restoration (Motion picture) Schmitt
Ella Gumpert, 1944.
10 min., sd., color, 16 mm.

Summary: Outlines preparation for analysis, restoration, and analysis of various types of teeth, including analysis of the pulp, root canal, and crown.

Technique of analysis, Multiple-chale, procedure (Motion picture)
U.S. Public Health Service, 1941. Made by U. S. Department of Health.

Summary: Illustrates how a dentist analyzes by working with a group of teeth, including analysis of the pulp, root canal, and crown.

Technique of analysis, Technique of application (Motion picture)
U.S. Public Health Service, 1941.

Summary: Shows the technique of applying a 2 percent solution of iodine to the teeth of children at a dental clinic.

Technique of analysis, back, teeth, and bone (Motion picture)
U.S. Army of the Army, 1947.

Summary: Shows a dental clinic of children in the front end of a dental clinic of children, including analysis of the pulp, root canal, and crown.

Technique of analysis, teeth, teeth, teeth (Motion picture)
U.S. Army of the Army, 1947.

Summary: Shows a dental clinic of children in the front end of a dental clinic of children, including analysis of the pulp, root canal, and crown.

ENGINEERING

Accident, airplane (Motion picture) McGraw-Hill Book Co., 1945.

Summary: Shows a dental clinic of children in the front end of a dental clinic of children, including analysis of the pulp, root canal, and crown.

Aluminum hydraulic brakes, Principles of operation (Motion picture)
U.S. Army Air Force, 1942. Released for public educational use through U. S. Office of Education, 1943.

Summary: Shows the principles of operation of aluminum hydraulic brakes, including analysis of the pulp, root canal, and crown.

Aluminum hydraulic brakes, Types, construction, and action (Motion picture) U. S. Army Air Force, 1942. Released for public educational use through U. S. Office of Education, 1943.

Summary: Shows the types, construction, and action of aluminum hydraulic brakes, including analysis of the pulp, root canal, and crown.

Aluminum hydraulic brakes, Hamilton hydraulic, theory and operation (Motion picture) U. S. Army Air Force, 1942. Released for public educational use through U. S. Office of Education, 1943.

Summary: Shows the theory and operation of Hamilton hydraulic brakes, including analysis of the pulp, root canal, and crown.

Aluminum hydraulic brakes, Principles of operation (Motion picture) U. S. Army Air Force, 1942. Released for public educational use through U. S. Office of Education, 1943.

Summary: Shows the principles of operation of aluminum hydraulic brakes, including analysis of the pulp, root canal, and crown.

Automobile, Hamilton hydraulic, theory and operation (Motion picture) McGraw-Hill Book Co., 1945. Made by Hamilton and Xerox Studios.

Summary: Shows the theory and operation of Hamilton hydraulic brakes, including analysis of the pulp, root canal, and crown.

Automobile, Hamilton hydraulic, theory and operation (Motion picture) McGraw-Hill Book Co., 1945. Made by Hamilton and Xerox Studios.

Summary: Shows the theory and operation of Hamilton hydraulic brakes, including analysis of the pulp, root canal, and crown.

Automobile, Hamilton hydraulic, theory and operation (Motion picture) McGraw-Hill Book Co., 1945. Made by Hamilton and Xerox Studios.

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Automobile, Hamilton hydraulic, theory and operation (Motion picture) McGraw-Hill Book Co., 1945. Made by Hamilton and Xerox Studios.

Summary: Shows the theory and operation of Hamilton hydraulic brakes, including analysis of the pulp, root canal, and crown.

The atom and industry (Motion picture) Encyclopedia Britannica Films, 1942. Produced in collaboration with the Institute of Nuclear Studies, Division of the Physical Sciences, University of Chicago.

Summary: Illustrates the use of radioisotopes in providing new techniques of measurement and quality control in the oil, automobile, and paper industries.

Auxiliary views, part 1 (Motion picture) McGraw-Hill Book Co., 1945.

Summary: Describes the theory of auxiliary views, including analysis of the pulp, root canal, and crown.

Auxiliary views, part 2 (Motion picture) McGraw-Hill Book Co., 1945.

Summary: Describes the theory of auxiliary views, including analysis of the pulp, root canal, and crown.

Auxiliary views, Double auxiliaries (Motion picture) McGraw-Hill Book Co., 1945.

Summary: Describes the theory of double auxiliary views, including analysis of the pulp, root canal, and crown.

Auxiliary views, Single auxiliaries (Motion picture) McGraw-Hill Book Co., 1945.

Summary: Describes the theory of single auxiliary views, including analysis of the pulp, root canal, and crown.

Big pipe maneuver (Motion picture) U. S. Army Engineers, 1941.

Summary: Shows the construction of a big pipe maneuver, including analysis of the pulp, root canal, and crown.

Building a highway (Motion picture) Encyclopedia Britannica Films, 1945.

Summary: Shows the construction of a highway, including analysis of the pulp, root canal, and crown.

ENGINEERING

Birth of a giant (Motion picture) U. S. Army Engineers, 1950.

Summary: Shows the construction of the McNary Dam on the Columbia River and explains its importance in terms of food, control, navigation, and hydro-electric power.

Bluestone Dam: Construction progress (Motion picture) U. S. Army Engineers, 1945.

Summary: A film record of the construction of Bluestone Dam from the beginning of the job to its completion.

Build with steel (Motion picture) American Institute of Steel Construction, 1942. Made by Argo Films.

Summary: Describes the use of steel construction for small high occupancy structures—small office buildings, apartment buildings, and schools. Through the story of an old project in the building business, watching his way direct the construction of his first building, the story tells of his career, showing typical project variations, and describing the way's education and apprenticeship in steel construction. Illustrates such techniques as the use of verticality, ground planer and demonstrates their advantages. In a sequence shows the planning and developing of steel beams.

Builders of the broad highway, part 1 (Motion picture) Frith Films, 1941.

Summary: Shows the construction of a highway—the laying out of the job, engineering, contracting, surveying, planning, grading, installing, underground, flow, for building, and building power lines. For elementary grades.

Builders of the broad highway, part 2 (Motion picture) Frith Films, 1941.

Summary: Shows the construction of a highway—the building of bridges and underpasses, the laying, paving, and smoothing of concrete. Includes scenes of a large concrete road in New York City. For elementary grades.

Building a better wheel (Motion picture) Caterpillar Tractor Co., 1945.

Summary: Shows the construction of a better wheel, including analysis of the pulp, root canal, and crown.

Building a highway (Motion picture) Encyclopedia Britannica Films, 1945.

Summary: Shows the construction of a highway, including analysis of the pulp, root canal, and crown.

ENGINEERING

Building the Golden Gate Bridge (Motion picture) Bethlehem Steel Co., 1937.

40 min., sd., b&w, 16 mm.

Summary: Describes the Golden Gate Bridge, discusses the transportation and erection problems involved in building it, and shows scenes of the actual construction.**Cable spinning (Motion picture)** University of Washington, 1962.

18 min., sd., color, 16 mm.

Summary: Techniques of spinning suspension-bridge cables on new Tacoma Narrows bridge: preparing cables, spinning, lashing and wrapping.**Castling articulated concrete mattress at Richardson's Landing, Tennessee, for bank protection on the Mississippi River (Motion picture)** U. S. Army Engineers, 1946.

19 min., sd., color, 16 mm.

Summary: Shows complete operation in the casting of a concrete mattress for the protection of the banks of the Mississippi River.**Caving bank protection work, Pine Bluff, Arkansas (Motion picture)** U. S. Army Engineers, 1938.

17 min., sd., b&w, 16 mm.

Summary: Shows emergency construction and the launching of rock-filled crib to curtail bank caving and permanent repairs made after the recession of flood water.**The Castline process (Motion picture)** Conkri Line Corporation, 1932.

18 min., sd., color, 16 mm.

Summary: Castline process (lining pipes in place with cement-mortar by centrifugal lining machines) to prevent corrosion.**Columbia frontier (Motion picture)** U. S. Department of the Interior, Bureau of Reclamation, 1933.

10 min., sd., color, 16 mm.

Summary: Development of Columbia River Basin Project, state of Washington; construction and operation of Grand Coulee; hydro electric plant; pumping station. Preliminary ice dam and ancient Grand Coulee. Water used to transform dry acres of sagebrush into irrigated farms.**Comprehensive model study of spillway, Wolf Creek Dam, Cumberland River, Kentucky (Motion picture)** U. S. Army Engineers, 1943.

21 min., sd., b&w, 16 mm.

Summary: Shows through the use of models an investigation of overall spillway performance, and tests of various bucket designs under different conditions of discharge and tailwater elevation.**Concrete pouring operations, Bayou Sorrel lock (Motion picture)** U. S. Army Engineers, 1948.

18 min., sd., color, 16 mm.

Summary: Illustrates the cycle of operation in pouring the third lift of the gateway section of the lock, and shows the field testing procedures used.**Construction ahead (Motion picture)** Commonwealth of Pennsylvania Dept. of Highways, 1948. Made by Motion Picture & Recording Studio, Pennsylvania State College.

20 min., sd., color, 16 mm.

Summary: Shows the construction of a modern concrete highway from the clearing of the right-of-way through the final paving operation.**Construction for defense (Motion picture)** U. S. Army Engineers, 1902.

15 min., sd., color, 16 mm.

Summary: Illustrates military construction being performed by the Corps of Engineers for the Army and Air Force in the Southwestern United States, and for the Air Force in Africa and Greenland.**Construction of a 135 KV underground transmission line (Motion picture)** Dept. of Water and Power, Los Angeles, 1950.

25 min., sd., color, 16 mm.

Summary: Describes methods used in constructing underground transmission line, including opening a street, excavating trenches and manholes, laying conduit, pouring concrete, back filling, and temporary paving. Demonstrates in detail the process of pulling and splicing cable underground.**Construction of a willow fascine mattress at Avenue, Arkansas (Motion picture)** U. S. Army Engineers, 1938.

14 min., sd., b&w, 16 mm.

Summary: Shows the preparation and placement of a willow fascine mattress for bank protection.**Construction of Norfolk Dam (Motion picture)** U. S. Army Engineers, 1945.

35 min., sd., color, 16 mm.

Summary: Shows the pouring of concrete with rubble and bucket under winter conditions during the construction of Norfolk Dam.**Construction of Peoria lock and dam (Motion picture)** U. S. Army Engineers, 1937.

50 min., sd., b&w, 16 mm.

Summary: Shows various phases of the construction of the lock and dam at Peoria on the Illinois waterway.**Construction record, lock and dam no. 3 (Motion picture)** U. S. Army Engineers, 1938.

50 min., sd., b&w, 16 mm.

Summary: Shows the construction of lock and dam no. 3, views of other locks and dams, and explains their relation to a 9-foot navigable channel.**Crevasse (Motion picture)** U. S. Army Engineers, 1949.

21 min., sd., color, 16 mm.

Summary: A record of the successful closure of the crevasse which occurred at Natchez Bend near Baton Rouge, Louisiana, in March, 1949.**Designing machinery for arc welding (Motion picture)** Lincoln Electric Co., 1948. Made by Herb Lamb Productions.

15 min., sd., b&w, 16 mm.

Summary: Indicates the freedom in design and cost-saving possibilities available to engineers in making and modifying machinery by the arc welding process.**Diesel, the modern power (Motion picture)** U. S. Bureau of Mines in cooperation with General Motors Corp., 1950.

21 min., sd., b&w, 16 mm.

Summary: Demonstrates the principles, construction, and operation of Diesel engines; contrasts the four-stroke and two-cycle Diesel engines; explains the applications of Diesel power in industry.**Discharge and sediment observations, Vicksburg engineer district (Motion picture)** U. S. Army Engineers, 1937.

11 min., sd., b&w, 16 mm.

Summary: Shows boats, equipment and techniques used in making discharge observations at Chicot Landing, Arkansas, and sediment observations at the Mayersville range.**Drawings and the shop (Motion picture)** McGraw-Hill Book Co., 1948.

12 min., sd., b&w, 16 mm.

Summary: Shows how the drawing and the shop are related. Shows the flow of work as indicated in the drawings of typical metal products through the pattern shop, foundry, forge, machine shop and assembly shop, and demonstrates operations representative of each department.

ENGINEERING

Elements of hardening (Motion picture) U. S. Office of Education, 1945. Produced by Audio Productions.

15 min., sd., b&w, 16 mm. (Engineering series. Heat treatment of steel, no. 1)

Order no. OE 170.

Summary: How steel is quenched-hardened; how the structure and hardness of steel with different carbon content change at progressive quench-hardening stages; how the lower and upper critical temperatures of steel are determined; and how an iron-carbon diagram is constructed and what it shows.**Elements of surface hardening (Motion picture)** U. S. Office of Education, 1945. Produced by Audio Productions.

14 min., sd., b&w, 16 mm. (Engineering series. Heat treatment of steel, no. 3)

Order no. OE 172.

Summary: Shows how steel is packed and gas carburized; how a thin hard case is obtained by cyaniding; how nitriding is used to obtain a very hard case; and how steel is flame and induction hardened.

—Another issue. b&w.

Elements of tempering, normalizing, and annealing (Motion picture) U. S. Office of Education, 1945. Produced by Audio Productions.

15 min., sd., b&w, 16 mm. (Engineering series. Heat treatment of steel, no. 2)

Order no. OE 171.

Summary: How steel is tempered; how the structure, toughness, and hardness of plain carbon steel change at progressive tempering stages; how steel is normalized and annealed, and the results of normalizing and annealing.**Engineers at work (Motion picture)** U. S. Army Engineers, 1902.

28 min., sd., b&w, 16 mm.

Summary: Shows the varied engineering projects of the Corps of Engineers such as the construction of dams and levees, and dredging for flood control and navigation. Produced primarily for the recruiting of civilian engineers.**Exploring with the microscope (Motion picture)** Alloghony Ludlum Steel Corporation, 1942.

12 min., sd., color, 16 mm.

Summary: Use of camera designed to take pictures at 1000 frames per second for study of motion details too fast for unaided human eye. Views of microtensile camera and lighting set-up. Shows cutting stainless steel as normally seen at 21 feet per minute; then as slowed down by microtensile to show details of cutting. Same procedure for standard stainless steel; hopping of tool shown. High speed punch showed 500 times by camera shows top of steel fracture first. Values of microtensile are checked on punch quality and design. Lathes cutting stainless steel at regular camera speed and at high speed; shots of milling machine taking half-inch cuts on stainless steel, at normal and at high speed; occasional pauses of tool and rocking of work. Battery of flashbulbs for illumination. Cutters on milling machine working under light oil film stress patterns.

ENGINEERING

- Flood protection, Wabash and Ohio River Valleys (Motion picture)** U. S. Army Engineers, 1942.
70 min., ed., color, 16 mm.
Summary: Shows procedures followed in the construction of flood walls and levees in the Ohio and Wabash River Valleys.
- Fontana Dam (Motion picture)** U. S. Tennessee Valley Authority, 1947. Produced by Sam Orleans Associates.
21 min., ed., color, 16 mm.
Summary: Record of engineering processes used in construction of Fontana Dam across the Little Tennessee River in the Great Smoky Mountains of North Carolina. Primarily for technical use.
- For better performance (Motion picture)** Ethyl Corporation, 1954.
16 min., ed., color, 16 mm.
- Fort Randall Dam (Motion picture)** U. S. Army Engineers, 1940.
30 min., ed., color, 16 mm.
Summary: Scenes of the construction of Fort Randall Dam, particularly the concrete operations and tunnel construction.
- Foundation explorations (Motion picture)** U. S. Army Engineers, 1951.
10 min., ed., color, 16 mm.
Summary: Shows conventional small-diameter and large-diameter drilling of core holes in a table rock dam site.
- Fuelage construction (Motion picture)** U. S. Army Air Forces, 1941. Released for public educational use through U. S. Office of Education, 1943.
8 min., ed., b&w, 16 mm. (Airplane structures series)
Order no. TP-1-213.
Summary: Describes the fuselage and shows loads exerted upon its component parts. Explains the principle of true construction and attachment of wing and the use of bulkheads and longitudinal stringers.
- Garrison on the Missouri (Motion picture)** U. S. Army Engineers, 1940.
23 min., ed., color, 16 mm.
Summary: Shows Garrison Dam under construction in North Dakota, and explains its relationship to the overall plan for the development of the Missouri River Basin.
- Garrison safe-guards (Motion picture)** U. S. Army Engineers, 1952.
21 min., ed., color, 16 mm.
Summary: Illustrates the safety program of the Corps of Engineers during the construction of Garrison Dam on the Missouri River.

- Garrison takes shape (Motion picture)** U. S. Army Engineers, 1951.
23 min., ed., color, 16 mm.
Summary: Features progress (1950) on the construction of Garrison Dam in North Dakota, including scenes of mining operations for the power and flood control tunnels and an explanation of how the land is being acquired for the reservoir.
- Gas for home and industry (Motion picture)** Encyclopedia Britannica Films, 1949.
17 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Explains the role of fuel gas as a source of energy. Describes the production of various types of manufactured gas, using natural gas, and natural gas. Shows how natural gas is obtained from wells and distributed through pipelines to population centers. Discusses the importance of gas conservation and suggests future technological developments in gas manufacture.
- A giant grows (Motion picture)** U. S. Army Engineers, 1951.
30 min., ed., color, 16 mm.
Summary: Shows Hickory Dam on the Columbia River, river traffic passing through the lift lock, final closure of the Columbia River, and the construction methods used in the building of the underwater cofferdam.
- Harnessing floods (Motion picture)** U. S. Army Engineers, 1950.
14 min., ed., color, 16 mm.
Summary: Demonstrates the construction of a large earth dam, and explains the benefits derived from such a structure.
- Heat treatment of aluminum (Motion picture)** U. S. Office of Education, 1945.
43 min., ed., b&w, 16 mm. (Engineering-Metallurgy—344, 345)
Summary: Part I. Purpose of heat treatment; microstructure changes during heat treatment; heat treatment procedures; aging or precipitation hardening; effects of heat treatment on physical properties of aluminum.
Part II. Nature of cold working operations; microstructure changes during cold working; microstructure changes during annealing; cold working and annealing operations.
- Heat treatment of steel—Elements of hardening (Motion picture)** U. S. Office of Education, 1945.
15 min., ed., b&w, 16 mm. (Engineering-Metallurgy—170)
Summary: Explains the meaning of scalar and vector quantities; how to add scalars and vectors; methods of vector composition and vector resolution; relationship between vector composition and vector resolution, and how vectors may be used to solve engineering problems.

- Heat treatment of steel—Elements of surface hardening (Motion picture)** U. S. Office of Education, 1945.
14 min., ed., b&w, 16 mm. (Engineering-Metallurgy—172)
Summary: How steel is pack carburized and gas carburized; how a thin, hard case is obtained by cyaniding; how nitriding is used to obtain a very hard case; how steel is flame and induction hardened.
- Heat treatment of steel—Elements of tempering, normalizing, and annealing (Motion picture)** U. S. Office of Education, 1944.
23 min., ed., b&w, 16 mm. (Engineering-Metallurgy—171)
Summary: How steel is tempered; how structure, toughness, and hardness of a plain carbon steel change at progressive tempering stages; how steel is normalized; how steel is annealed; how annealing relieves stresses in steel and softens it.
- Highway soil engineering (Motion picture)** United States Department of Commerce, Bureau of Public Roads, 1949.
10 min., ed., color, 16 mm.
Summary: Methods of conducting soil tests for stabilization of highways, subgrades and bases.
- The industrial atom (Motion picture)** Handol Film Corp., 1954.
13 min., ed., b&w, 16 mm. (The Magic of the Atom, no. 19)
- Industrial exhaust systems (Motion picture)** University of Michigan Audio-Visual Center, 1952.
12 min., ed., b&w, 16 mm.
Summary: The types of hoods, baffles, elbows, and fans used in modern industrial exhaust systems are demonstrated with silhouette models and are also shown in operation in manufacturing plants. Illustrates, with artificial smoke, their comparative effectiveness.
- Intersections of surfaces (Motion picture)** Purdue Research Foundation, 1940.
9 min., ed., b&w, 16 mm.
With instructor's manual, work sheet, four 2x2 inch slides.
Summary: Explains by means of models and drawings the principles of finding the lines of intersection between intersecting surfaces.
- An introduction to vectors: coplanar concurrent forces (Motion picture)** U. S. Office of Education, 1945. Produced by Loucks and Norling Studios.
22 min., ed., b&w, 16 mm. (Engineering series. Fundamentals of mechanics)
Order no. OE-381.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Explains the meaning of scalar and vector quantities; how to add scalars and vectors; methods of vector composition and vector resolution; relationship between vector composition and vector resolution, and how vectors may be used to solve engineering problems.
..... Another issue. 35 mm.

ENGINEERING

- It's mighty cheap insurance (Motion picture)** California Texas Oil Company, Ltd., 1952.
30 min., ed., color, 16 mm.
Summary: Why modern motor car requires modern heavy-duty motor oil; why crankcase drains at 1,000-mile intervals are important to engine life. (Animation).
- Kentucky Dam (Motion picture)** U. S. Tennessee Valley Authority, 1948. Produced by Sam Orleans Associates.
21 min., ed., color, 16 mm.
Summary: Record of engineering processes used in construction of Kentucky Dam across the Tennessee River, 1938-45. Primarily for technical use.
- Language of drawing (Motion picture)** McGraw-Hill Book Co., 1948.
10 min., ed., b&w, 16 mm. (Mechanical drawing)
Correlated with the book, Mechanical drawing, by Thomas E. French.
Summary: Shows how the study of mechanical drawing is helpful in modern production in the building industry.
- Leveling for topographic mapping (Motion picture)** U. S. Geological Survey, 1951.
20 min., ed., color, 16 mm.
Summary: Demonstrates the use of the U. S. Geological Survey precise level and rod in the development of the third-order level nets needed for proper vertical control in topographic mapping.
- Little Island bayou outlet structure (Motion picture)** U. S. Army Engineers, 1940.
13 min., ed., color, 16 mm.
Summary: Shows construction of a 10-barrel, gated, reinforced concrete structure for drainage of impounded water in the area enclosed by the White River backwater levee in Arkansas.
- Loads on underground conduits (Motion picture)** Iowa State College, 1951.
10 min., ed., color, 16 mm.
Summary: Principles of Marston's load theory demonstrated. How fill loads on buried conduits can be minimized; upward friction forces explained; advantages of pulling shunting gradually while filling. Problems of projecting conduits (rigid and flexible); how settlement ratios can work for engineers. Vehicles impact discussed.
- Localizing troubles (Motion picture)** McGraw-Hill Book Co., 1953. Made by Loucks and Norling Studios.
8 min., ed., b&w, 16 mm. (Television principles and servicing)
Correlated with the book, Basic television, by Bernard Grab.
Summary: An intercarrier sound receiver using the feedback high voltage supply is used as a typical example in explaining how to identify trouble symptoms and locate them in a specific section of the receiver by studying the three indicators present in the receiver itself—meter, picture, and sound.

ENGINEERING

- Man with a thousand hands (Motion picture)** International Harvester Company, 1933.
15 min., ed., color, 16 mm.
Summary: Vast engineering project in British Columbia, Canada, to convert waterpower from melting snows in Yukon into electrical energy for processing of aluminum; magnitude of project and obstacles to be overcome; step-by-step account of development of project; life of workers; special heavy equipment used in building dams, tunnels, roads, removing forest.
- Men against rock (Motion picture)** Gardner-Desver Company, 1948.
31 min., ed., color, 16 mm.
- Men working (Motion picture)** Commonwealth of Pennsylvania, Dept. of Highways, 1951. Made by Motion Picture & Recording Studio, Pennsylvania State College.
37 min., ed., color, 16 mm.
Summary: Shows in detail the chief kinds of maintenance operations used for the Highway Dept. in improving the life of Pennsylvania's highways.
- The mission of the Memphis District (Motion picture)** U. S. Army Engineers, 1946.
32 min., ed., color, 16 mm.
With picture notes.
Summary: Shows major operations of the U. S. Army Engineers' Memphis District including commercial navigation, dredging, bank protection, and levee construction.
- Model studies of outlet stilling basin, Cherry Creek Dam and Reservoir (Motion picture)** U. S. Army Engineers, 1947.
8 min., ed., color, 16 mm.
Summary: Studies, through the use of models, stilling basin operation under various conditions of discharge from the three outlet conduits of Cherry Creek Dam, and of a proposed diversion structure planned for ultimate development.
- Model study of outlet structures for Wappapello Dam, St. Francis River (Motion picture)** U. S. Army Engineers, 1938.
23 min., ed., color, 16 mm.
Summary: A model study of flow conditions in the approach channel and intake tower for various gate combinations; function of trash racks; effect of barrier used as a substitute for conservation pool weir; investigation of the removal of automatic gates on sluices; flow conditions in greddy cutout and transition for various gate conditions; and comparison of stilling basin designs.
- Model study of penstocks, Norris, Bluestone, and Norfolk Dams (Motion picture)** U. S. Army Engineers, 1942.
12 min., ed., color, 16 mm.
Summary: Shows through the use of models the flow conditions in the penstocks at Norris, Bluestone, and Norfolk Dams.
- Model study of spillway and stilling basin for John Martin (Caddo) Dam, Arkansas River (Motion picture)** U. S. Army Engineers, 1940.
24 min., ed., color, 16 mm.
Summary: Shows comparative flow conditions in a model of a spillway and stilling basin for various operating conditions of spillway gates, conduits, and pool and tailwater elevations at John Martin, formerly Caddo, Dam on the Arkansas River.
- Model study of spillway for Salinas Dam (Motion picture)** U. S. Army Engineers, 1943.
21 min., ed., color, 16 mm.
Summary: Tests on a 1:25 scale fixed bed model of a 100-foot-wide, supercritical spillway, showing various flow conditions for discharge varying from 5,000 to 27,000 cubic feet per second.
- Model study of spillway for Wappapello Dam, St. Francis River (Motion picture)** U. S. Army Engineers, 1938.
54 min., ed., color, 16 mm.
Summary: A model study of current directions, scour and deposition, various pilot-channel designs, effect of removing bridge piers, spillway submergence, and progressive stages of erosion.
- The nation's building stone (Motion picture)** Indiana Limestone Institute, 1947.
20 min., ed., color, 16 mm.
Summary: How Indiana limestone is quarried; fabrication processes for architectural use. Machines, tools; their uses.
- New fuel for New England (Motion picture)** Bechtel International Corporation, 1932.
20 min., ed., color, 16 mm.
Summary: Construction of 22½ miles of natural gas pipelines in New England.
- 1948 Newport, Kentucky flood (Motion picture)** U. S. Army Engineers, 1948.
18 min., ed., color, 16 mm.
Summary: Shows the construction of an 1800-foot emergency sandbag levee, the devastating flood conditions, and emergency pumping over the levee.
- The 1937 flood in the Memphis District, Corps of Engineers (Motion picture)** U. S. Army Engineers, 1937.
35 min., ed., color, 16 mm.
Summary: Shows the highway fight during the flood of 1937 on the Mississippi River within the Memphis District, and the numerous emergency measures adopted by district personnel. Also shows operation of the Hanks Point-New Madrid floodway.
- Norfolk hydraulic tests (Motion picture)** U. S. Army Engineers, 1945.
20 min., ed., color, 16 mm.
Summary: Film record of stilling basin action under varied conditions.

ENGINEERING.

- Oil films in action (Motion picture)** General Motors Corp., Research Laboratories Division. Released by General Motors Corp., 1951.
18 min., ed., color, 16 mm.
Summary: Using a transparent plastic bearing block, shows how oil film pressures vary at different points around the circumference of a journal, and proportionally with the load. Demonstrates that viscosity and journal speeds have no effect on oil film pressure. Illustrates the action of covering oil films, or fluid wedges.
- Oil today, power tomorrow (Motion picture)** Frith Films, 1951.
16 min., ed., color, 16 mm.
Summary: How oil is obtained, transported, stored. Dangers of fire. Importance of oil on farm, in home, as source of power for transportation.
- On these foundations (Motion picture)** John Hancock Mutual Life Insurance Company, 1951.
16 min., ed., color, 16 mm.
Summary: Construction of modern building, from ground-breaking to completion. Told by "fieldwork superintendents" who trace history of site, its geology; by construction worker who describes creation of building step by step; clerical worker, who points out advantages it offers persons employed there. How architectural improvements have helped efficient operation.
- Operation concrete (Motion picture)** U. S. Army Engineers, 1950.
25 min., ed., color, 16 mm.
Summary: Shows concrete operations at Detroit Dam under construction on the North Saatiem River near Detroit, Ont.
- Operation Ice Flow (Motion picture)** U. S. Army Engineers, 1948.
17 min., ed., color, 16 mm.
Summary: Shows icebreaking operations on the Illinois waterway.
- Operation of Bonnet Carré spillway during the 1937 flood (Motion picture)** U. S. Army Engineers, 1937.
17 min., ed., color, 16 mm.
Summary: Shows general view of the spillway, flow conditions, and methods of opening and closing needle bays during the 1937 flood of the Mississippi River. Photographed on February 25, 1937.
- Orthographic projection (Motion picture)** McGraw-Hill Book Co., 1948.
18 min., ed., color, 16 mm. (Engineering drawing, film 2)
Supplementary filmstrip of the same title also available. Correlated with the book Engineering drawing, by Thomas E. French.
Summary: By a combination of animated diagrams and animated photographs of specially prepared models, states three-dimensional effects to explain shape description. Demonstrates the making and reading of a drawing, and reviews the basic principles of orthographic projection.
- Our enemies, sand and gravel (Motion picture)** U. S. Army Engineers, 1952.
15 min., ed., color, 16 mm.
With picture narration.
Summary: Shows the step-by-step operation of an Ohio River dredge in channel maintenance.
- The P & H single pass processing method—Bituminous (Motion picture)** Harmlach Corporation, 1950.
16 min., ed., color, 16 mm.
Summary: Modern method of road stabilization with asphalt. Shows P and H single pass stabilizer in operation on highway surfacing job in which soft bituminous materials are being used. Stabilizer described: three rotors and pug mill in which road aggregate is mixed with asphalt. How road bed is prepared by aerial spreading, grading, compaction. How stabilizer operates, picks up road material, mixes it with asphalt, distributing mixture at uniform depth and density.
- Pictorial sketching (Motion picture)** McGraw-Hill Book Co., 1953. Made by Depicta Films.
21 min., ed., color, 16 mm. (Engineering drawing, Set 2, no. 1)
Correlated with the book Engineering drawing, by Thomas E. French and Charles J. Violette.
Summary: Animated drawings and live photography are used in explaining the basic principles of pictorial sketching. Describes the three methods of pictorial sketching, and explains where and how to use each method. Demonstrates a definite step-by-step procedure for sketching, from the initial visualization to the checking of the completed sketch.
- A pipeline licks the weather (Motion picture)** Southern California Gas Company, 1945.
20 min., ed., color, 16 mm.
Summary: Utilization of natural gas reservoirs lying of 100 mile oil pipelines to supply increased needs of Los Angeles, California; history and geological formation of La Brea oil field where it was proposed to utilize natural gas bed as artificial gas reservoir.
- Pipes in the house (Motion picture)** Churchill-Wooder Film Productions, 1953.
11 min., ed., color, 16 mm.
- Principle of moments (Motion picture)** U. S. Office of Education, 1945. Produced by Loucks and Norling Studios.
25 min., ed., color, 16 mm. (Engineering series, Fundamentals of mechanics)
Order on OE 302.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Explains the concept of moment of a force; the formula for finding its numerical value; principle of moments as applied to all coplanar force systems.
—Another issue, b.w.

ENGINEERING

Principles of gearing: an introduction (Motion picture) U. S. Office of Education, 1945. Produced by Loucks and Norling Studios.
18 min., ed., b&w, 16 mm. (Engineering series. Fundamentals of mechanics)
Order no. OE 102.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Friction gears and toothed gears; law of gearing, positive driving, internal profiles, pressure angle, cycloid profiles, velocity ratio, and circular pitch.
— Another issue. b&w.

Principles of lubrication (Motion picture) U. S. Office of Education, 1945. Produced by Graphic Films.
10 min., ed., b&w, 16 mm. (Engineering series)
Order no. OE 155.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: The need for lubrication; properties of lubricants; action of lubricants, viscosity of lubricants, and conditions that determine proper viscosity.
— Another issue. b&w.

Principles of scale drawing (Motion picture) Coronet Instructional Films, 1910.
11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Through the experiences of three students who are building a boat for a fair, shows some of the skills and interpretation of scale drawing—the determination of scale, use of measuring and scaling tools, necessity of understanding terms, and the importance of scale drawing in modern industry.
— Another issue. b&w.

Problem at Port Washington (Motion picture) U. S. Army Engineers, 1950.
10 min., ed., color, 16 mm.
Summary: Describes types of model studies made by the Hydrostatic Division of the Corps of Engineers at the Waterways Experiment Station, Vicksburg, Miss., and at Port Washington, Wis.
— Another issue. b&w.

Protecting a great city (Motion picture) U. S. Army Engineers, 1950.
30 min., ed., color, 16 mm.
Summary: Portrays and explains the measures taken in Kansas City, Mo., for flood control.

River of gold (Motion picture) U. S. Army Engineers, 1950.
30 min., ed., color, 16 mm.
Summary: Explains the Pick-Stone plan for development of the Missouri River Basin and the role of the U. S. Army Corps of Engineers in this plan.

Road test one—Maryland (Motion picture) U. S. Department of Commerce, Bureau of Public Roads, 1952.
71 min., ed., color, 16 mm.
Summary: Conclusions drawn from test of typical concrete pavement subjected to controlled truck traffic at La Plata, Maryland, under direction of Highway Research Board. Causes and effects of phenomena observed. Nature and distribution of kinds of soils underlying pavement; effects of typical rainfall; comparison of cracking under various axle loadings; model pavements; nature and causes of stresses; magnitude and locations of stresses caused by single-axle and tandem-axle trucks, on fully-supported and pumped-out subgrades. Cause of longitudinal cracking.

Roller earth dams (Motion picture) U. S. Army Engineers, 1950.
25 min., ed., color, 16 mm.
Summary: Shows by animation the component parts of an earth dam and portrays the methods used by the U. S. Army Corps of Engineers in the construction of such dams.

St. Francis closures 1945, St. Francis basin project, emergency loop repair (Motion picture) U. S. Army Engineers, 1945.
33 min., ed., b&w, 16 mm.
With lecture notes.
Summary: Shows operations involved in the construction of emergency wood skeleton and sandbag closures of levee crevasses during the highwater of 1945.

The search: Massachusetts Institute of Technology (Automatic machines) (Motion picture) Young America Films, Inc., 1950.
27½ min., ed., b&w, 16 mm.

Sections and conventions (Motion picture) McGraw-Hill Book Co., 1948.
15 min., ed., b&w, 16 mm. (Engineering drawing, film 5)
Supplementary filmstrip of the same title also available.
Correlated with the book Engineering drawing, by Thomas E. French.
Summary: Indicates that on regular exterior views important interior details of an object may often show as a continued mass of dotted lines, and demonstrates that the sectional view is the remedy. Describes various types of sections, including a full section, half-section, revolved section, and auxiliary section, and shows how to construct sectioned views.

Selection of dimensions (Motion picture) McGraw-Hill Book Co., 1948.
15 min., ed., b&w, 16 mm. (Engineering drawing, film 7)
Supplementary filmstrip, with title Dimensioning techniques, also available.
Correlated with the book Engineering drawing, by Thomas E. French.
Summary: Introduces principles governing the choice of dimensions and shows them to be based on two factors: functional characteristics of the object including consideration of accuracy demanded, and relationship of the portion to other elements of the unit or machine, and manufacturing methods used in making the object. Gives interpretation and application of these factors to a specific object as a guide for more general application.

Shackles for the giant (Motion picture) U. S. Army Engineers, 1951.
25 min., ed., color, 16 mm.

Summary: Shows the work of the U. S. Army Corps of Engineers in the development and execution of a flood control plan for the valley of the lower Mississippi River.
— Another issue. b&w.

Single pass processing method—Cement (Motion picture) Harnischfeger Corporation, 1950.

Summary: Modern method of road stabilization with cement base. Construction of F and H single pass stabilizer. Stabilizer on job as road is shaped, grades driven, eight rods driven, dry cement spread over surface. Water tank truck blushed and hose connected to stabilizer, process chamber lowered and stabilizer shown as it blends, pulverizes, mixes, spreads soil cement to uniform depth for compaction by sheep's foot roller. Split tooth header and rubber roller. Road shaped to specifications, dragged, rolled, covered with straw. Tests for density especially on secondary roads.

The slide rule: proportion, percentage, squares and square roots (Motion picture) U. S. Office of Education, 1944. Produced by Loucks and Norling Studios.

21 min., ed., b&w, 16 mm. (Engineering series)
Order no. OE 164.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: How to use the "C" and "D" scales of the slide rule to calculate proportions and percentages; how to read the "A" and "B" scales, and how to calculate squares and square roots.
— Another issue. b&w.

The slide rule: the "C" and "D" scales (Motion picture) U. S. Office of Education, 1943. Produced by Loucks and Norling Studios.

24 min., ed., b&w, 16 mm. (Engineering series)
Order no. OE 170.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Purpose of the slide rule; parts of the rule; how to use the "C" and "D" scales in the multiplication and division of numbers.
— Another issue. b&w.

Slow motion studies of combustion, knock and pre-ignition (Motion picture) Ethyl Corporation, 1954.
20 min., ed., b&w, 16 mm.

Snagging and channel marking for commercial navigation of the Mississippi River (Motion picture) U. S. Army Engineers, 1918.
15 min., ed., color, 16 mm.
Summary: Shows the operations of a snag boat in channel improvement and maintenance.

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Snagging operations on the White River, Arkansas (Motion picture) U. S. Army Engineers, 1947.
15 min., ed., color, 16 mm.

Summary: Explains a complete snagging operation, extending from spotting the snag in the White River to its final disposal.

Soil tests for earth construction (Motion picture) U. S. Army Engineers, 1951.

23 min., ed., color, 16 mm.
Summary: Portrays laboratory methods and procedures used by the U. S. Army Corps of Engineers in obtaining soil test data needed for the design and construction of earth structures such as levees and earth dams.

Speaking of models (Motion picture) U. S. Army Engineers, 1952.

14 min., ed., color, 16 mm.
Summary: Shows how hydraulic model studies made by the Corps of Engineers at the Waterways Experiment Station, Vicksburg, Miss., aid in the planning and designing of projects for flood control, navigation, and hydroelectric power.

Standard flood-fighting practices, 1948 (Motion picture) U. S. Army Engineers, 1948.

31 min., ed., color, 16 mm.
Summary: Shows the construction of models of various emergency flood-control structures and the practical application of those structures during floods.

The story of the helicopter (Motion picture) U. S. Army Air Forces, 1944.

21 min., ed., b&w, 16 mm.
Order no. TT 1-3077.
Summary: Reviews the history of rotary winged aircraft designed on Leonardo da Vinci's direct-lift principle; shows how the first practical design, the FW-41, evolved from numerous unsuccessful experiments; distinguishes the helicopter from the autogyro; and describes Sikorsky's HO-4.
— Another issue. 25 mm.

Structural units, materials, and loads for which designed (Motion picture) U. S. Army Air Forces, 1941. Released for public educational use through U. S. Office of Education, 1945.

8 min., ed., b&w, 16 mm. (Airplane structures series)
Order no. TT 1-211.
Summary: Describes the four structural units of an airplane—fuselage, wings, control surfaces, and landing gear. Discusses the positive and negative loads which each must withstand.

Surveying with kyttoon (Motion picture) U. S. Army Engineers, 1947.

18 min., ed., color, 16 mm.
Summary: Shows a method of triangulation surveying using kyttoons (inflated-inflated balloons) and two-way communication.

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Taming a wild river (Motion picture) U. S. Army Engineers, 1947.
24 min., ed., color, 16 mm.

Summary: Shows work of the U. S. Army Corps of Engineers in the reclamation of floods and the improvement of navigation on the Missouri River.

Television in your community (Motion picture) Coronet Instructional Films, 1955.
31 min., ed., color, 16 mm.

Summary: A tour of a television station showing the activities in the studio, in the control room, and in the film projection room. Describes the role of the director, the cameraman, the studio engineer, the floor manager, the projectionist, and the editor. Discusses factors which influence program planning.

—Another issue. b.w.

Television receivers (Motion picture) McGraw-Hill Book Co., 1955. Made by Loucks and Nerling Studios.
7 min., ed., b&w, 16 mm. (Television principles and servicing)

Summary: Correlated with the book Basic television, by Bernard Grob. Diagrams and five action are used to identify the sections of the receiver circuit and to summarize the functions of the receiver. Explains the specific functions of each section in a typical receiver circuit, from the antenna and transmission line to the picture tube.

Tension testing (Motion picture) U. S. Office of Education, 1944. Produced by Audio Productions.
21 min., ed., b&w, 16 mm. (Engineering series)

Order no. OE-848. With instructor's manual. Supplementary filmstrip of same title also available.
Summary: How a hydraulic tension testing machine operates; how to prepare the machine and a specimen for a test and conduct the test to determine the specimen's elastic limit, yield point, and ultimate strength.

—Another issue. b.w.

Tearing T-square and triangles (Motion picture) Purdue Research Foundation, 1941.
11 min., ed., b&w, 16 mm.

Summary: Demonstrates the testing of T-square and triangles for straightness of edges and correctness of angles, without the use of other equipment.

Thirty-four inch (Motion picture) Bochtel International Corporation, 1961.
34 min., ed., color, 16 mm.

Summary: Documentary record of laying "Super Inch" (natural gas pipeline) across Mojave Desert to San Francisco Bay.

This is resistance welding (Motion picture) The General Electric Company, 1946.
30 min., ed., color, 16 mm.

Summary: Three types of resistance welding described: spot, projection, seam. Advantages and uses of each. Use of gun welder shown; advantages of portability.

The drain application to levee construction (Motion picture) U. S. Army Engineers, 1951.
15 min., ed., color, 16 mm.

Summary: Deals with the problem of under-seepage in the construction of a levee. Illustrates the cause and effect of levee seepage; and shows how underground toe-drains are installed.

Tomorrow meets today (Motion picture) Ford Motor Co., 1952. Produced by MPO Productions.
22 min., ed., color, 16 mm.

Summary: Shows drafting room, laboratories, and testing facilities of the Ford engineering and research center where designers are seen at work on original pencil sketches, renderings, and models of future cars. Follows the creation of a new car from the designing room to the testing of the prototype car before it is approved for mass production.

Tornado in a box (Motion picture) Allis-Chalmers Manufacturing Company, 1944.
28 min., ed., b&w, 16 mm.

Summary: Construction, principle, advantages and limitations of gas turbines.

Training in flood fighting (Motion picture) U. S. Army Engineers, 1947.
10 min., ed., color, 16 mm.

Summary: Reviews of the necessity for flood-control activities, protective works on rivers, mechanics of flood fighting, and various devices and control measures used in field operations.

The triode: amplification (Motion picture) U. S. Office of Education, 1945. Produced by Loucks and Nerling Studios.
14 min., ed., b&w, 16 mm. (Engineering series. Electronics, no. 3)

Order no. OE-127. With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Principles of the diode and triode; electric heater; triode amplifier circuit; amplification of D. C. voltage changes; alternating voltage; detector; amplification of audio frequency signals.

—Another issue. b.w.

Turning research into power (Motion picture) Caterpillar Tractor Co., 1950.
22 min., ed., color, 16 mm.

Summary: Processes involved in design and manufacture of new type V-8 and V-12 diesel engines.

Typical television interference patterns (Motion picture) U. S. Dept. of Agriculture, 1953.
11 min., ed., b&w, 16 mm.

Summary: Demonstrates and discusses types of television interference patterns most noticeable on TV receivers. Primarily for technical personnel.

Use of T-square and triangles (Motion picture) Purdue Research Foundation, 1941.
20 min., ed., b&w, 16 mm.

Summary: With instructor's manual, work sheet.
Summary: Demonstrates the basic principles for the correct use of T-square and triangles.

Vicksburg District activities (Motion picture) U. S. Army Engineers, 1947.
22 min., ed., color, 16 mm.

Summary: Shows activities of the U. S. Army Engineers' Vicksburg District as related to flood-control measures, bank retirement, drainage, levee construction, excavations, etc.

Water for millions (Motion picture) Los Angeles Department of Water and Power, 1950.
34 min., ed., color, 16 mm.

Summary: Importance of water supply to large metropolitan areas illustrated by story of water as brought from the High Sierras into homes of Los Angeles, California.

Water supply (Motion picture) Academy Films, 1947.
11 min., ed., color, 16 mm.

Summary: Describes how a water supply is obtained in different parts of the country. Through animated diagrams demonstrate how water moves into the ground and is stored as ground water. Shows how water is obtained by springs, artesian wells, hand pumps, windmills, power, and electricity pumps. Explains that cities in dry areas of the U. S. must bring their water supply from great distances, and shows how water for the city of Los Angeles is brought from the Colorado River some 500 miles away. Notes that research and testing assures a pure water supply.

—Another issue. b.w.

Westward flow (Motion picture) Southern California Gas Company, 1945.
28 min., ed., color, 16 mm.

Summary: How the 1200 mile Texas-California gas pipeline was built.

Wicket recovery by means of mechanical "elephant trunk" gear (Motion picture) U. S. Army Engineers, 1955.
20 min., ed., color, 16 mm.

Summary: Shows operational tests on mechanical means of handling wickets on the Ohio River movable dam.

Wing construction (Motion picture) U. S. Army Air Forces, 1941. Released for public educational use through U. S. Office of Education, 1945.
10 min., ed., b&w, 16 mm. (Airplane structures series)

Order no. TP-1-212. **Summary:** Describes the construction and functions of airplane wings: the chord, span, and rib; materials used in construction; and the use of interior and skin bracing to withstand the forces of thrust and drag.

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Wolf River floodwall, section 3 (Motion picture) U. S. Army Engineers, 1947.
63 min., ed., color, 16 mm.

Summary: A record of the construction of a concrete floodwall on Wolf River, with emphasis on concrete mixture and inspection and the use of air-entrained concrete.

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Arteries of life (Motion picture) Conservation Foundation in association with the New York Zoological Society. Released by Encyclopedia Britannica Films, 1948.
12 min., ed., color, 16 mm. (Living earth series, pt. 3)

Summary: Shows the functions of plant life in catching and storing water and in maintaining top soil; explains the water cycle and the water table; and describes current method of distributing flowing water from forested areas, through the soil, into streams, and thence to cities and mills away. Includes animated drawings. For junior and senior high school grades and adult groups.

California picture book (Motion picture) United World Films, 1947.
9 min., ed., b&w, 16 mm.

Summary: Shows Mt. Shasta, the giant redwoods, Lake Tahoe, the Monterey Peninsula, Santa Barbara and Hollywood.

—Another issue. si. at ed. speed.

—Another issue. si. 8 mm.

Cattle and the Corn Belt: U. S. A.—the Middle West (Motion picture) United World Films, 1940. Produced by Louis de Rochemont Associates.
20 min., ed., b&w, 16 mm. (The earth and its peoples)

Summary: Describes the importance of the Middle West as the center of the nation's cattle production. Shows how animals raised on the western plains are sent to the Corn Belt for fattening prior to marketing at midwestern centers. For elementary, high school, and college groups.

The changing Cotton Land: U. S. A.—the Southeast (Motion picture) United World Films, 1940. Produced by Louis de Rochemont Associates.
20 min., ed., b&w, 16 mm. (The earth and its peoples)

Summary: Describes the efforts to redevelop impoverished land in the Southeast by shifting from the single-crop cotton economy to diversified farming, and by the introduction of such new industries as lumbering, textile manufacturing, dyeing, and cattle raising. For elementary, high school, and college groups.

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- The Colorado River (Motion picture)** Coronet, 1947.
11 min., sd., color, 16 mm.
With teacher's guide.
Summary: Contrasts the untamed fury of the Colorado River's rapids with the disciplined beauty of its delta's vast harbors. Shows how the Hoover, Parker, and Imperial Dams have made the Colorado a source of electrical power, and the site of recreational resorts. Illustrates how its waters for irrigation have reclaimed the Imperial Valley from a barren desert. For intermediate grades and high school.
— Another issue. b&w.
- Deserts (Motion picture)** John F. Criswell. Released by Gateway Productions, 1953.
8 min., sd., b&w, 16 mm. (The primary geography series)
Summary: Shows how deserts are made, the various plants that grow in the California deserts, how irrigation changes desert lands.
- Eskimo as hunters: Northwestern Alaska (Motion picture)** United World Films, 1949. Produced by Louis de Rochemont Associates.
20 min., sd., b&w, 16 mm. (The earth and its peoples)
With teacher's guide, textbook correlation, and curriculum correlation.
French version also available.
Summary: Shows how the Eskimos in small villages on the Arctic shore live by hunting and fishing; describes how a final product is used for food, clothing, and shelter; depicts a trading post where furs and skins are exchanged for imported manufactured commodities. For elementary, high school, and college groups.
- Far Western States (Motion picture)** Erpi Classroom Films (later name Encyclopedia Britannica Films) 1952.
11 min., sd., b&w, 16 mm.
With teacher's guide.
Summary: Characterizes the far Western States as a region of contrasts in climate, topography, people, and population density. Emphasizes the importance of mining and lumbering, growth of industry and commerce, the area's interdependence with other regions, and its strategic position as gateway to the Pacific and Far East. Includes how irrigation and contrasting climates have influenced varied and large scale agricultural production. For middle grades, high school, and adult groups.
- Geography of New England (Motion picture)** Coronet Instructional Films, 1951.
11 min., sd., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Depicts New England as being not only a physical area, but also a network of relationships between people and places, activities and resources. Shows the effects of glaciation, development of specialized industries, distribution of population; and the background, economy, and culture of the area.
— Another issue. b&w.
- Geography of the Pacific States (Motion picture)** Coronet Instructional Films, 1950.
12 min., sd., color, 16 mm.
With study guide.
Summary: Explains that the diversified agriculture of the Pacific States is made possible by the use of irrigation and by climatic variations which are influenced by mountain ranges, ocean currents, and winds. Shows how the transportation network, with terminals at such cities as Seattle, Portland, San Francisco, and Los Angeles, has influenced the development of agriculture and industry. Includes scenes of such industries as aircraft building, oil refining, aluminum manufacturing, and lumbering.
— Another issue. b&w.

- Geography of the Southern States (Motion picture)** Coronet, 1952.
11 min., sd., b&w, 16 mm.
Summary: Presents a brief history of the South. Describes the influence of the climate and soil on industry, on the lives of the people, and on such crops as tobacco, cotton, citrus fruits, soybeans, and peanuts.
- Geography of the Southwestern States (Motion picture)** Coronet, 1952. © David A. Smart; 24Mar52; MP2102.
11 min., sd., b&w, 16 mm.
Summary: A view of Arizona, New Mexico, Oklahoma, and Texas. Describes the cattle ranches, wheat and cotton farms, oil and natural gas resources, irrigation projects, and commercial centers of the area.
- The Great Lakes—highway of commerce (Motion picture)** Harry Grabbe, 1948. Released by Encyclopedia Britannica Films, 1951.
22 min., sd., color, 16 mm.
Summary: Depicts the importance of the Great Lakes to the early settlement of America and to the industrial development of regions adjacent to them. Illustrates the role of the Lakes in transporting lumber, wheat, coal, and iron ore; and pictures typical freight carrying vessels. Emphasizes the significance of the Lakes to the prosperity of America and to the well-being of her people.
- The Hawaiian Islands, their chief industries (Motion picture)** Pat Dowling Pictures, 1951.
10 min., sd., color, 16 mm. (Hawaiian Islands series)
Kodachrome.
Summary: Shows the planting, cultivation, harvesting, and shipping of the two major Hawaiian agricultural crops, sugar and pineapple, and explains that the economy of the islands is based chiefly upon agriculture.
- Life in the desert: North America (Motion picture)** Encyclopedia Britannica Films, 1954.
11 min., sd., color, 16 mm.
With study guide.
Summary: A photographic study of the western deserts of the United States. Describes the weather encountered in desert country, explains how the animals and plants are adapted to the climate, and includes examples of desert flora and fauna.
— Another issue. b&w.
- Life in the forest: North America (Motion picture)** Encyclopedia Britannica Films, 1955.
10 min., sd., color, 16 mm.
With study guide.
Summary: Presents the forest as a place of beauty and abundance, as well as a place of conflict and hidden dangers. Shows the evolution of wooded areas and the diversity of animal and plant life within the forest.
— Another issue. b&w.

- Life in the grasslands: North America (Motion picture)** Encyclopedia Britannica Films, 1954.
11 min., sd., color, 16 mm.
Kodachrome.
With study guide.
Summary: Depicts plant, animal, and insect life of the grasslands of North America. Describes how the plants and animals adjust themselves to various conditions, shows how the animals cope with the problems of getting food, and emphasizes the inter-relationship of all living things and their surroundings.
— Another issue. b&w.
- The Monongahela, America's busiest river (Motion picture)** March of Time, 1952.
20 min., sd., b&w, 16 mm.
Summary: Follows the course of the Monongahela River through Pennsylvania and West Virginia and describes its complex system of locks and dams. Pictures the coal mines on its shores, life on the barges which carry the coal, and the social life of the boatmen, miners, mill workers, and farmers who live in the Monongahela Valley.
- Mount Rainier (Motion picture)** Edited Pictures System, 1927.
10 min., sd., b&w, 16 mm.
Summary: Beauties and wonders of Mount Rainier; horticultural differences at different altitudes; glacial action; uncontrollable power of glaciers; sources of streams; progressive development of water power. Mountain climbing.
- Mount Rainier (Motion picture)** Elmer Rowe Nelson. Released by Instructional Films, 1952.
1 reel, sd., color, 16 mm.
Summary: Photographs of Mt. Rainier and its twenty-six glaciers, with scenes of representative animal and plant life found above the timber line and in the forest zone on the mountain slopes.
- The mountains (Motion picture)** Arthur Barr Productions, 1948.
11 min., sd., color, 16 mm.
Kodachrome.
With study guide.
Summary: A trip up a western mountain, showing the typical plants and animals found at various levels. Shows trail trips, camping, and fishing as ways to enjoy the mountains. Points out the importance of mountains in supplying man with water.
— Another issue. b&w.

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- Nomads of the north (Motion picture)** Eskinoland Pictures. Released by Balby Films, 1955.
12 min., sd., color, 16 mm. (Beyond the Yukon series)
Summary: Depicts the nomadic life of reindeer herders. Shows herders' camps in summer and mid-winter, Eskimo children at work and play, and a reindeer roundup. Describes living conditions when the temperature is 70 degrees below zero and when the tundra turns green with the coming of spring.
— Another issue. b&w.
- North Pole (Motion picture)** A. W. Haendler. Released by Young America Films, 1955.
11 min., sd., b&w, 16 mm.
Produced in France and re-edited and revoiced for American audiences.
With teacher's guide.
Summary: Photographic scenes and animated maps explain the importance of early and modern polar exploration and of polar routes in aviation.
- Omaha, rail metropolis of the Plains (Motion picture)** March of Time, 1953.
20 min., sd., b&w, 16 mm.
Summary: A tour of Omaha, the center of the Union Pacific Railroad system, which includes a ride on the California Zephyr, a visit to the city's cattle market, and a demonstration of the split-second servicing of night trains.
- Our big, round world (Motion picture)** Coronet Instructional Films, 1953.
10 min., sd., color, 16 mm. (Concepts for geography)
With study guide.
Summary: Presents basic geographic concepts for intermediate-grade students. Describes the roundness of the earth, explains the significance of the relation of the earth, and shows how geographical location affects climate.
— Another issue. b&w.
- Our earth (Motion picture)** Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1957.
10 min., sd., b&w, 16 mm.
With study guide.
Summary: Shows the principal physical aspects of the earth and the influence of the earth's position on its various regions. Explains the influence of oceans, currents, coast lines, rivers, lakes, valleys, plains, plateaus, and mountains on the lives and economic conditions of the people in different parts of the world. For intermediate grades and junior high school.
- Our natural resources (Motion picture)** Pat Dowling Pictures, 1955.
10 min., sd., color, 16 mm. (The wealth of our nation)
Summary: Describes scientific methods of conserving timber, minerals, and water. Includes sequences showing the exploration and refining of oil and the production of copper, iron, building stone, and uranium.

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Our productive land (Motion picture) Pat Dowling Pictures, 1955.

10 min., sd., color, 16 mm. (The wealth of our nation)

Summary: Contrasts modern scientific farming methods with those of the past. Shows the importance of soil conservation and the need for improvement in the distribution of farm products.**Tigers: ancient city of the north** (Motion picture) Ekimoland Pictures, Released by Bailey Films, 1953.

12 min., sd., color, 16 mm. (Beyond the Yukon series)

Summary: Shows the archaeological remains of Tigris's civilization as it was 6,000 years ago, and emphasizes the similarities of living conditions then and now. Describes the construction of levees, the use of waterwheels, boats, and the carrying of masks from wharves.

—Another issue. b&w.

The valleys (Motion picture) Arthur Barr Productions, 1948.

11 min., sd., color, 16 mm.

Kodachrome.

With guide.

Summary: Shows how valleys are formed and modified by running water. Illustrates typical plant and animal life of western valleys, and points out man's use of valley regions to grow food.

—Another issue. b&w.

What causes the seasons? (Motion picture) Victor Kayfets Productions, Released by Young America Films, 1952.

11 min., sd., b&w, 16 mm.

With teacher's guide.

Summary: Explains the cause of the changing seasons in relation to the inclination and revolution of the earth on its axis and shows how the seasons are reversed from the Northern to the Southern Hemisphere.**What makes a desert** (Motion picture) Young America Films, 1949.

11 min., sd., b&w, 16 mm.

With teacher's guide.

Summary: Explains and illustrates the geographic and climatic factors that create a desert area, with particular reference to the southwestern United States. Uses a combination of photography and animation to show how factors such as prevailing winds and mountain barriers. Shows how desert land can be reclaimed by irrigation. For elementary grades.**Work of rivers** (Motion picture) Erpi Pictures Consultants (later name Encyclopedia Britannica Films) in cooperation with the University of Chicago and National Park Service, 1953.

11 min., sd., b&w, 16 mm.

With teacher's guide.

Summary: Portrays running water as the most powerful of all and through arrows, table demonstrations, animated drawings, and natural photography, explains the growth of rivers, erosion cycles, natural floodways, and deposition. Illustrates the formation of oxbow lakes, rapids, and alluvial fans. For high school, college, and adult groups.**Yosemite: End of the rainbow** (Motion picture) Guy D. Haselton Productions, Released by Bailey Films, 1948.

11 min., sd., color, 16 mm. (Western wonderland series)

Condensed version.

Summary: Scenes of waterfalls, rock formations, sequoia trees, bears, deer, chipmunks, birds, and other wild life.

—Another issue. b&w.

GEOGRAPHY—Maps

Caught mapping (Motion picture) Jam Handy Organization, 1910.

9 min., sd., b&w, 16 mm.

Summary: Presents the history of map making and tells the story behind modern road maps.**Global concepts in maps** (Motion picture) Coronet, 1947.

11 min., sd., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Stimulates a student's investigation of maps to explain globe representations. Introduces the practical application of cylindrical, conic, and perspective projection by a demonstration of the great circle route on a polar projection.

—Another issue. b&w.

Let's look at maps (Motion picture) Virginia State Board of Education, Produced and released by Virginia Dept. of Education, 1949.

11 min., sd., color, 16 mm.

Summary: Introduction to maps, comparing symbols on the map with the Virginia countryside they represent. For elementary grades.**Maps and their meaning** (Motion picture) Academy Films, 1951.

14 min., sd., color, 16 mm.

With teacher's guide.

Summary: Explains the meaning of the different colors of a map, and indicates the type of land found in each of the color zones. Explains the effects of altitude, latitude, and rainfall, and shows how they influence man's use of the land. Includes animated diagrams.**Maps and their uses** (Motion picture) Coronet Instructional Films, 1951.

11 min., sd., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Presents the fundamentals of map making and reading. In story form shows the way to prepare a map, the use of the legend, scale, and grid, and describes various types of maps. For intermediate and junior high school grades and teacher training classes.

—Another issue. b&w.

Maps are fun (Motion picture) Coronet, 1946.

11 min., sd., color, 16 mm.

With teacher's guide.

Summary: Presents the fundamentals of map making and reading. In story form shows the way to prepare a map, the use of the legend, scale, and grid, and describes various types of maps. For intermediate and junior high school grades and teacher training classes.

—Another issue. b&w.

Maps—land symbols and terms (Motion picture) Academy Films, 1956.

14 min., sd., color, 16 mm.

Summary: Air views and photographs of representative areas of the United States are used in explaining how to interpret land symbols and terms which appear in map legends. Shows how cities of various sizes, state capitals, boundary lines, highways, deserts, national parks, waterfalls, canals, railroads, rivers, and mountain peaks are indicated on a map.**Reading maps** (Motion picture) Encyclopedia Britannica Films, 1955.

11 min., sd., color, 16 mm.

With film guide.

Summary: A young boy learns about the use of maps in following roads and locating various places. He is shown how to read the map by studying the title, scale, direction symbols, and legend.

—Another issue. b&w.

Topographic mapping by photogrammetric methods (Motion picture) U. S. Geological Survey, 1947.

10 min., sd., color, 16 mm.

Summary: Portrays technical procedures employed by the Topographic Division of the U. S. Geological Survey in making standard topographic quadrangles, featuring the use of the multiple method of mapping. Technical presentation for engineering students and other scientific personnel.**Understanding a map** (Motion picture) Henry Clay Gipson, Released by Young America Films, 1952.

11 min., sd., b&w, 16 mm.

Sequel to What is a map?

With teacher's guide.

Summary: Explains, by means of models and animation, the relation of a sample map to the territory which it represents.**What is a map?** (Motion picture) Teaching Films, 1947.

Produced by Key Productions. Released by Young America Films, 1949.

10 min., sd., b&w, 16 mm.

With teacher's guide.

Summary: A small girl writes to her friend and describes her bedroom. The concept of maps is introduced and explained, first in terms of a plan of a living room and then in terms of a map of the neighborhood. Includes animation. For elementary school grades.

GEOGRAPHY—Navigation

Bearings, single line of position, and fixes (Motion picture) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Office of Education, 1944.

10 min., sd., b&w, 16 mm. (Celestial navigation series)

Order no. TP 1-544.

Summary: Explains bearing, line of position, circle of equal altitude, fix and intercept, plotting of assumed position and intercept, and selection of celestial bodies for observation.

GEOGRAPHY—Navigation

Harbor pilot (Motion picture) Bailey Films, 1949.

11 min., sd., b&w, 16 mm.

Summary: Work of harbor pilot in bringing a giant liner safely into port; simple story with many close-ups. Slow tempo.

—Another issue. color.

Introduction and location of celestial points (Motion picture) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Office of Education, 1943.

15 min., sd., b&w, 16 mm. (Celestial navigation series)

Order no. TP 1-520.

Summary: Explains the uses of celestial navigation, the location of points on the earth by reference to celestial bodies, and the meaning of zenith, nadir, azimuth, hour angle, local hour angle, and bubble horizon.**Latitude by Polaris** (Motion picture) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Office of Education, 1944.

10 min., sd., b&w, 16 mm. (Celestial navigation series)

Order no. TP 1-545.

Summary: Shows relationship between latitude and elevated pole; position and diurnal path of Polaris; and reduction of altitude of elevated pole. Describes the use of mathematical formulas and tables in determining the altitude of Polaris.**Omni-bearing distance navigation system** (Motion picture) U. S. Dept. of the Air Force, 1949. Released for public educational use through U. S. Office of Education, 1961.

25 min., sd., b&w, 16 mm.

Order no. TP 1-604.

Summary: Describes the principles of operation of the VOR (very high frequency omni-directional radio range) and explains how to use the aircraft instruments developed to fly this type of radio range.**Position finding on the earth** (Motion picture) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Office of Education, 1943.

15 min., sd., b&w, 16 mm. (Celestial navigation series)

Order no. TP 1-524.

Summary: Illustrates geographical position, Greenwich hour angle, local hour angle, relationship of hour angle to longitude, zenith distance and its relationship to altitude, circle of position, line of position, fix, relation of assumed to actual position, and intercept.**Solution of illustrative problems in celestial navigation** (Motion picture) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Office of Education, 1944.

10 min., sd., b&w, 16 mm. (Celestial navigation series)

Order no. TP 1-520.

Summary: Illustrates sight reduction computations and flight procedure in making a typical celestial navigation flight. Shows use of the sextant in sighting stars, and plotting time by various methods.**Time** (Motion picture) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Office of Education, 1944.

10 min., sd., b&w, 16 mm. (Celestial navigation series)

Order no. TP 1-548.

Summary: Explains various time elements in celestial navigation which are used in solving practical exercises.

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Birth of a volcano (Motion picture) Sterling Educational Films, 1951.
10 min., ed., b&w, 16 mm.

Birthplace of icebergs (Motion picture) 20th Century-Fox Film Corp. Released for educational purposes by Teaching Film Custodians, 1951.
11 min., ed., b&w, 16 mm. (Father Hubbard adventure series)
Summary: Presents a study of a tidewater glacier, showing an ice river moving down to the sea where it collapses, discharging huge chunks of ice into the Gulf of Alaska.

Earth's rocky crust (Motion picture) Encyclopaedia Britannica Films, Inc., 1934.
10 min., ed., b&w, 16 mm.

Summary: Composition of earth's surface; constant change. Building up and breaking down of land forms; water cycle; formation and crumbling of rocks.

Face of the earth (Motion picture) Encyclopaedia Britannica Films in affiliation with Paul Burnford Productions, 1953.
20 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Shows how the earth's surface changes as a result of geologic forces which build up and wear down the land. Explains how the conflict between geologic forces has resulted in natural wonders such as the Painted Desert, the Petrified Forest, plateaus, and canyons.

Geological work of ice (Motion picture) Erpi Picture Consultants (later name Encyclopaedia Britannica Films) in cooperation with the University of Chicago and the National Park Service, 1935.
12 min., ed., b&w, 16 mm.
With film guide.
Summary: Describes how ice, through geologic ages, has been a powerful factor in sculpturing the face of the earth. Reveals the tremendous effect of ice upon soil and rock as the ice constantly expands, contracts and moves. Illustrates how glaciers form, move, and alter surrounding terrain features. Animated drawings explain the Pleistocene glaciation period. For high school, college, and adult groups.

Geology camp (Motion picture) University of Oklahoma, 1952.
10 min., ed., b&w, 16 mm.
Summary: Summer geology field camp of University of Oklahoma and Oklahoma A. & M. College.

Glacier Park studies (Motion picture) Guy D. Haselton Productions. Released by Halley Films, 1950.
11 min., ed., color, 16 mm. (Western wonderland series)
Continued version.
With study guide.
Summary: Tells the history, geology, and outstanding life forms of Glacier Park. Animated maps locate mountain structures, plateaus, and life formations. Close-up photography shows moose, ptarmigan, sheep, beaver, birds, and small animals. Includes views of mountain and meadow forests.

Ground water (Motion picture) Erpi Picture Consultants (later name Encyclopaedia Britannica Films) in cooperation with the University of Chicago and the National Park Service, 1935.
11 min., ed., b&w, 16 mm.

With teacher's guide.
Summary: Presents various evidences, movements, and work of ground water. Demonstrates evidences in wells, aquifers, springs, and rivers. Illustrates, through animated drawings, the water table, and the Great Artesian system, and the formation of caverns and caves. Explains perched water, fossils, geologic strata, and how they are deposited as supporting evidence that ground water may deposit, as well as carry away, minerals. For high school, college, and adult groups.

The Hawaiian Islands, their origin and nature today (Motion picture) Pat Dowling Pictures, 1951.
10 min., ed., color, 16 mm. (Hawaiian Islands series)
Kodachrome.

Summary: Shows by drawings how the Hawaiian Islands were originally created by volcanic action, and by processes of nature were transformed into habitable and repeated islands. Illustrates features of the various islands.

In the beginning (Motion picture) Socony-Vacuum Oil Company, General Petroleum Corp., and, Magnolia Petroleum Co. Made by Ciba and McGraw. Released by Modern Talking Picture Service, 1954.
29 min., ed., color, 16 mm.

Summary: Tells the story of the formation of the earth as revealed in the Grand Canyon, and explains the development of the Grand Canyon itself.

Limestone caverns (Motion picture) Coronet Instructional Films, 1943.
11 min., ed., color, 16 mm.

Kodachrome.
With teacher's guide.
Summary: Shows the physical and chemical action of water and atmosphere on strata and deposits, using Wisconsin's Cave of the Mounds as the locale. Pictures formations of stalactites, stalagmites, speleothems, helictites, and others. Includes descriptions of other caves.
—Another issue, b&w.

Microscopic studies in porous media (Motion picture) University of Oklahoma, 1953.
10 min., ed., b&w, 16 mm.

Summary: How oil flows underground.

Microscopic studies of capillary flow (Motion picture) Pennsylvania State University, 1950.
21 min., ed., color, 16 mm.

Summary: Microscopic motion picture study of flow of air, oil and water through sand-filled capillaries and plates. Technique used for producing, filling, and mounting capillaries on microscopic slides. Displacement of oil through sand grains shown.

Minerals from the sea (Motion picture) University of Miami, 1953.
14 min., ed., b&w, 16 mm.

Summary: Minerals in solution in seawater; some extracted commercially, others experimentally. Sea as great potential source of minerals, which may become increasingly important as other resources are depleted.

Mountain building (Motion picture) Erpi Picture Consultants (later name Encyclopaedia Britannica Films) 1935. Made in cooperation with the University of Chicago and the National Park Service.
11 min., ed., b&w, 16 mm.

Summary: Explains diastrophism as one of two factors opposing gradation. Shows alternating types of earth strata as evidence that crustal movements have been both upward and downward. Explains faults, anticlines, synclines, geosynclines, and unconformities. Through animated drawings illustrates the probable formation of the Lewis overthrust. Explains orogenic zones, and refers to geologic problems in mining and structural engineering.

Niagara Falls (Motion picture) Robert L. Balen. Released by Hollywood Film Enterprises, 1945.
11 min., ed., color, 16 mm.

With study guide.
Summary: Explains the geological formation of Niagara Falls, and tells of the discovery of the falls. Traces its early history, gives its location, and discusses the falls as the greatest natural source of water power on the North American continent.
—Another issue, b&w.

Oil across the Rockies (Motion picture) Bechtel Corporation, 1953.
40 min., ed., color, 16 mm.

Our changing earth (Motion picture) University of Michigan, 1954.
30 min. (each part), ed., b&w, 16 mm.

Contents.—1. The Birth of the Great Lakes. 2. The Great Ice Ages. 3. Highways Before the Ice Ages. 4. Mineral Wealth. 5. The Time of the Dinosaurs. 6. Treasures from the Earth. 7. Water for Your Future.

Petroleum and its products (Motion picture) Edited Pictures System, 1938.
10 min., ed., b&w, 16 mm.

Summary: Geologic and geographic factors involved in creation of petroleum; method of drilling for oil; storage and transportation of crude oil; distillation of petroleum for its products; refined products; transported to market.

Phantom sea (Motion picture) Allen and Allen Productions. Released by Halley Films, 1944.
24 min., ed., b&w, 16 mm.

Summary: Lifesaurus evidences of a sea which formerly covered the Colorado Desert in Southern California. Also shows the various forms of plant life of the region and the animal life which inhabits the region today.

Photogeology—a new look for oil (Motion picture) Geophoto Services, 1951.
22 min., ed., color, 16 mm.

Summary: How demand for oil has stimulated oil surveys by photogeology; modern photogrammetric method of determining land structure and formation. How the work is done, aerial photography.

Prehistoric times: the world before man (Motion picture) Coronet, 1953.
11 min., ed., color, 16 mm.

Summary: Reconstructs the earth in its presumed form during the two-billion-year period prior to the coming of man. Explains the most important geological and biological developments of the five great geological eras—Archeozoic, Proterozoic, Paleozoic, Mesozoic, and Cenozoic.
—Another issue, b&w.

Research: pattern for progress (Motion picture) Texas Co. Made by MPO Productions. Released by Modern Talking Picture Service, 1950.
22 min., ed., b&w, 16 mm.

Summary: Portrays research activities in the Texas Company including the fields of oil exploration, production, and refining. Emphasizes the important part played by research in the progress of the petroleum industry.

River of ice, the story of a glacier (Motion picture) Halley Films, 1949.
10 min., ed., color, 16 mm.

With study guide.
Summary: Shows the effect of glaciation upon the plant, animal, and human life of an alpine region; the relationship of climate to the seasonal cycle of ice accumulation and melt-water runoff of a glacier; the structure, sources, and movements of a typical alpine valley glacier. For grades 6-12.
—Another issue, b&w.

Rocks and minerals (Motion picture) Film Associates of California, 1954.
10 min., ed., color, 16 mm.

Kodachrome.
With teacher's study guide.
Summary: Distinguishes between the three basic kinds of rock: igneous, sedimentary, and metamorphic, and illustrates the manner of their formation.
—Another issue, b&w.

The search: Fordham University (Earthquake research) (Motion picture) Young America Films, Inc., 1955.
27½ min., ed., b&w, 16 mm.

Secret of the fjord (Motion picture) 20th Century-Fox Film Corp., 1942. Released for educational purposes by Teaching Film Custodians, 1946.

Summary: A photographic record of Father Hubbard's expedition to an Alaskan fjord and a glacier to study remnants of the Ice Age.

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The story of petroleum (Motion picture) Encyclopedia Britannica Films, 1947.
21 min., ed., b&w, 16 mm.

Previously released under the title Petroleum.

With teacher's guide.

Summary: Combines animated drawings and natural photography to portray the role of petroleum in economic and political life. Considers the use of oil as fuel for transportation, heating, and manufacturing. Explains how geographers are exploring for oil, drilling a service on, and how oil is refined. Explicit, on animated maps, how the world's petroleum resources are distributed.

Understanding our earth: glaciers (Motion picture) Coronet, 1952.

30 min., ed., b&w, 16 mm.

Summary: Shows the formation of many different kinds of glaciers and describes the effects of glacial action, as seen in the lakes of the Rockies, soil in the Corn Belt, glacial drift in New England, and the Matterhorn peak in the Swiss Alps.

Understanding our earth: soil (Motion picture) Coronet Instructional Films, 1955.

11 min., ed., b&w, 16 mm.

Summary: Soil profile (topsoil, subsoil, loose rock and bed rock), elements of soil (sand, decaying plant and animal matter, and clay), processes of soil making (breaking down of rock into fine particles by erosion and "plant and animal matter decaying into humus"), types of soils throughout the United States; importance of soil conservation.

Another issue, color.

Volcano (Motion picture) University of California at Los Angeles. Made by University Extension. Released by Educational Film Sales Dept., University of California at Los Angeles, 1955.

11 min., ed., color, 16 mm.

Summary: Shows the three phases of Parícutin's volcanic activity which started suddenly in 1953, and some of the resultant devastation. Includes scenes of the smoke column pouring forth, scenes made from the rim looking down into the crater, and scenes showing the lava spouting out of the ground. Depicts some of the destruction of villages and fields, and closes with a display of the volcano at night.

Volcanoes in action (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) in cooperation with the University of Chicago and the National Park Service, 1955.

11 min., ed., b&w, 16 mm.

With teacher's guide.

Summary: Presents volcanism as a factor opposing gradation. Describes non-eruptive volcanic action forming batholiths, dikes, sills, columnar joints, and laccoliths. Indicates resulting mineral deposits and rock transformations. Through animated drawings and natural photography, demonstrates distribution, causes, and effects of volcanic regions. Explains cone types, illustrates lava flow and its destructive force, and depicts examples of extinct and active volcanoes. For high school, college, and adult groups.

What is soil? (Motion picture) Simmel-Moskewitz. Released by Instructional Film, 1948.

12 min., ed., b&w, 16 mm. (Elementary school)

Summary: In trying to make soil in which to grow his beans a little boy learns by observation and experiment that soil is essential to plant growth and to all other forms of life, and that soil is composed mainly of eroded rock and dead organic material. Explains that important factors in the breaking of rock into fine particles are water freezing in rock crevices, sudden temperature changes, rock abrasion, and erosion. Shows that plants and animals, living and dead, contribute to soil formation. Points out that the formation of soil has required millions of years and is still going on.

Work of the atmosphere (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1955. Made in cooperation with the University of Chicago and the National Park Service.

11 min., ed., b&w, 16 mm.

Summary: Characteristic atmosphere as one of the most effective agents of earth gradation. Demonstrates mechanical disintegration caused by temperature changes, freezing water, wind erosion, and wind abrasion. Shows chemical disintegration of rocks caused by oxidation, hydration, and carbonation. Describes atmosphere in its role of transportation and deposition by depositing sand and dust, storm clouds, and dust deposits.

GEOLOGY—Metallurgy

Atomic metallurgy (Motion picture) Handel Film Corp., 1954.

13 min., ed., b&w, 16 mm. (The magic of the atom, 16)

Iron-carbon alloys (Motion picture) American Society for Metals, 1949.

30 min., ed., color, 16 mm.

Summary: Wide use of alloys of iron and carbon in modern life and industry; great variation in properties of different alloys with small changes in carbon content. Effect of carbon in iron. Low, medium and high carbon steels explained. Pure iron being cooled. How iron-carbon equilibrium diagram can be used to explain effect of carbon on properties of iron. Tools of metallurgical research: microscope, recording pyrometer, dilatometer, etc. Formation and transformation of structures which form in iron-carbon alloys when heated and cooled; mechanism of crystallographic changes from one allotropic form of iron to another, explained and demonstrated. Vital importance of alloys of iron and carbon in modern civilization.

Metal crystals (Motion picture) American Society for Metals, 1942.

20 min., ed., b&w, 16 mm.

Summary: Real I. Crystalline substances (granite, marble, limestone, sugar candy) and non-crystalline substances (glass, oil, and stick candy, rubber, amber, plastic bottles). Solidification of metals from molten state, shown; how crystals form when molten metal is cooled slowly. Drawing of impure tin, during solidification; formation of dendrites. Microscopic picture showing chemical action, precipitation of metal dendrites in water solution; also grains in solution of its salts, producing microscopic tin dendrites. Size of tiny metal crystal compared to size of the atoms. How dendrites grow and branch regularly. They meet, forming grain boundaries.

Real II. Grain structures of most metals and alloys visible only under microscope; polishing and etching specimens; the study under microscope.

Real III. Temperature of solidification. Value of study of cooling characteristics of metals. Delay in cooling during freezing of copper shown by pyrometer in melt and effect of cooling metal on millivoltmeter. Time-temperature resistance curves defined, discussed.

Metal magic (Motion picture) The General Electric Company, 1945.

10 min., ed., b&w, 16 mm.

Summary: How metallurgists and industrial research workers have developed metals and metal alloys to meet demands of modern industry. Examples of specific metals to meet specific conditions, illustrated.

Metals and non-metals (Motion picture) Coronet Instructional Films, 1949.

11 min., ed., color, 16 mm.

Non-ferrous.

With teacher's guide.

Summary: Discusses the physical characteristics and reactions which distinguish metals from non-metals; demonstrates that metals are conductors of electricity and non-metals are insulators of electricity; explains the nature of alloys and metallurgical compounds.

Another issue, b&w.

Powder metallurgy; part 1: Principles and uses (Motion picture) U. S. Office of Education, 1948. Produced by Audio Productions.

30 min., ed., b&w, 16 mm. (Engineering series)

Order no. OE 347.

With instructor's manual.

Summary: Principles of powder metallurgy—powder, pressing, heat; major industrial applications of powder metallurgy; laboratory process of combining silver and nickel powder.

Another issue, b&w.

Powder metallurgy; part 2: Manufacture of porous bronze bearings (Motion picture) U. S. Office of Education, 1945. Produced by Audio Productions.

15 min., ed., b&w, 16 mm. (Engineering series)

Order no. OE 347.

With instructor's manual.

Summary: Manufacturing process by which metal powders are fabricated into porous bronze bearings and impregnated with oil.

Another issue, b&w.

GEOLOGY—Mining

Atomic goldrush (Motion picture) Handel Film Corp., 1955.

15 min., ed., b&w, 16 mm. (The magic of the atom, no. 20)

Summary: Produced with the technical assistance of the U. S. Atomic Energy Commission and the Atomic Energy Project at U. C. L. A. **Summary:** Explains how the search for uranium has fired the imagination of both the amateur prospector and expert miner. Shows prospecting by airplane and on foot, the staking of a claim, core drilling to determine the grade of the ore body, the examination of the core at the laboratory, and the initiation of the run.

Copper—mining and smelting (Motion picture) Viking Pictures Corp. Released by Encyclopedia Britannica Films, 1950.

11 min., ed., color, 16 mm.

With teacher's guide.

Summary: An account of an open-pit copper mine in operation. Illustrates the main steps in extracting pure copper from ore. Describes processes of blasting, loading, and disposing of waste rock; loading ore in railroad cars, crushing, and washing. Emphasizes the work of the miners in their various jobs at the mine.

Another issue, b&w.

Iron and steel (Motion picture) Edited Pictures System, 1938.

10 min., ed., b&w, 16 mm.

Summary: Operation of open-pit mine in northern Minnesota; transportation of ore to mill; operation of blast furnace and smelter; Bessemer converter and open-hearth furnace; production of sheet, rail and bar steel.

Iron ore mining (Motion picture) Academy Films, 1950.

13 min., ed., color, 16 mm.

Summary: Pictures the operation of a typical large open-pit mine in the Mesabi Range of northern Minnesota. Shows the transportation methods necessary to move mass quantities of ore from the mine by rail car to the loading docks at Duluth, the loading of an ore boat, and the ore boat leaving the harbor on its way to the steel mills of Chicago, Pittsburgh, and Cleveland.

Loads of coal (Motion picture) International Harvester Company, 1950.

15 min., ed., color, 16 mm.

Summary: Mining and processing of coal from open-pit mine; removal of overburden, mining of coal, transportation to tipple, cleaning and grading at tipple, reclamation of land.

Mining for nickel (Motion picture) The International Nickel Company, Inc., 1955.

52 min., ed., color, 16 mm.

Another issue, 35 mm.

Modern coal mining (Motion picture) Goodyear Tire & Rubber Co., 1941.

20 min., ed., b&w, 16 mm.

Summary: Shows how electrically-driven labor-saving machinery replaces methods which have been used in coal mining for hundreds of years.

Pay dirt (Motion picture) Gardner-Dunne Company, 1922.

27 min., ed., color, 16 mm.

Summary: Improved techniques in mining copper, iron, uranium, zinc and other metals. High speed automatic drilling equipment makes miners' work easier and increases production per man-hour.

Peat and coal (Motion picture) Edited Pictures System, 1938.

10 min., ed., b&w, 16 mm.

Summary: Geology of peat and coal; how peat is prepared for fuel. Operation of coal mine above and below ground; preparation of coal for market.

Petroleum and its uses (Motion picture) Sinclair Refining Company, 1943.

42 min., ed., b&w, 16 mm.

Summary: How petroleum products raise standard of living; examples of petroleum products and uses.

GEOLOGY—Mining

Salt mining operation (Motion picture) The Carey Salt Company, 1951.
10 min., sd., color, 16 mm.
Summary: Modern equipment, techniques of mining and shipping salt, used in Carey Salt mine (Kansas, USA).

The search: Colorado School of Mines (Uranium prospecting) (Motion picture) Young America Films, Inc., 1955.
27½ min., sd., b&w, 16 mm.

The story of coal (Motion picture) Knowledge Builders, 1958.
12 min., sd., b&w, 16 mm.

With manual.
Summary: Points out that coal is one of the greatest natural resources, and that its discovery 150 years ago in America was the beginning of a new industry. Shows how coal is mined through the ages, the mining process, regions where it is found, and its uses in the business world.

GEOLOGY—Paleontology

Fossils are interesting (Motion picture) Paul Burnford. Made and released by Film Associates of California, 1959.
10 min., sd., color, 16 mm.

Kodachrome.
With teacher's study guide.
Summary: Three children, on a fossil hunting trip, find the imprint of a fish, the imprint of a plant, a piece of mineralized wood, and the actual shell of an extinct oyster-like animal. They learn how fossils help to record the story of the earth's past.

—Another issue. b&w.

Hunting animals of the past (Motion picture) University of Nebraska State Museum. Made by University of Nebraska Photographic Productions. Released by Bureau of Audio-Visual Instruction, Extension Division, University of Nebraska, 1951.
22 min., sd., color, 16 mm.

Summary: Paleontologists locate and excavate fossil bones in western Nebraska, an area far removed of modern mammals. Shows how paleontologists work and live while on a field trip. Despite the discovery of a fossil rhinoceros. Shows how the bones are shipped back to the University State Museum where they are assembled and displayed as a complete skeleton.

—Another issue. b&w.

Shell mounds in the Tennessee Valley (Motion picture) U. S. Tennessee Valley Authority, 1957.
21 min., sl., b&w, 16 mm.
Summary: Shows the prehistoric shell mounds found in excavation of the Hickory Landing Dam area.

The story of prehistoric man (Motion picture) Coronet Instructional Films, 1955.
11 min., sd., color, 16 mm.

With study guide.
Summary: Photographed exhibits from the Chicago Natural History Museum and the Musée de l'Homme in Paris are used to outline the lives and the minds of prehistoric man, to chart the progress of the human race from its earliest beginnings to the present.

—Another issue. b&w.

MATHEMATICS

The language of mathematics (Motion picture) Coronet, 1959.
11 min., sd., color, 16 mm.

Kodachrome.
With teacher's guide.
Summary: Demonstrates how mathematics is fundamental to daily living in our modern society. Explains the use of the precise and systematic language of mathematics, and shows how this unique language helps to state and solve problems more rapidly and accurately.

—Another issue. b&w.

MATHEMATICS—Arithmetic

Adding and subtracting (Motion picture) Johnson Hunt Productions, 1955.
11 min., sd., color, 16 mm.

With teacher's guide.
Summary: Presents simple number stories using leaves, marbles, apples, coins, toy boats, white mice, and ducks. Emphasizes how the numbers change with the action of the story and illustrates the corresponding arithmetic problem in addition or subtraction.

—Another issue. b&w.

Arithmetic for beginners (Motion picture) Bailey Films, 1951.
18 min., sd., b&w, 16 mm.

With study guide.
Summary: Presents a visual concept of addition and subtraction by showing model farmyard animals come into the picture while numbers at bottom of frame show addition, and by showing the animals leave the picture while numbers show subtraction. For 4th and 5th grades.

Borrowing in subtraction (Motion picture) Motion Picture Association of America in collaboration with Houghton Mifflin Co. and the American Council on Education. Made by World Today. Released for educational purposes by Teaching Film Custodians, 1948.
15 min., sd., b&w, 16 mm.
A Teaching Film Survey motion picture.
Summary: Explains the step-by-step borrowing process involved in subtracting from a three place number.

Decimal fractions (Motion picture) Johnson Hunt Productions, 1949.
11 min., sd., color, 16 mm. (Fractions series)

With study guide.
Summary: Through animation explains how decimal fractions are written and what they mean. Shows in detail the relationship between decimal fractions and common fractions.

—Another issue. b&w.

Division is easy (Motion picture) Coronet, 1949.
11 min., sd., color, 16 mm.

With teacher's guide.
Summary: Presents the reasons division is important, using examples of problem situations to demonstrate division in action. For primary and intermediate grades, junior high schools, and teacher training groups.

—Another issue. b&w.

Helping children discover arithmetic (Motion picture) Audio-Visual Materials Consultation Bureau, Wayne University, 1951.
10 min., sd., b&w, 16 mm.

With discussion guide.
Summary: Pictures an average third grade class during four consecutive daily periods from the introduction of an arithmetic process to the point where the pupils are able to work problems related to the process.

How to add fractions (Motion picture) Johnson Hunt Productions, 1947.
11 min., sd., color, 16 mm. (Fractions series)

With study guide.
Summary: Reviews the definition of a fraction, denominator, and numerator. Shows how to add fractions which have a common denominator, and explains why the denominator remains unchanged; shows why a common denominator is necessary and explains how to arrive at a common denominator.

—Another issue. b&w.

How to change fractions (Motion picture) Johnson Hunt Productions, 1948.
11 min., sd., color, 16 mm. (Fractions series)

With study guide.
Summary: Presents the principles involved in converting one fraction to another fraction having equal value but higher or lower terms. Explains in detail why the procedure results in an equal fraction.

—Another issue. b&w.

How to divide fractions (Motion picture) Johnson Hunt Productions, 1948.
11 min., sd., color, 16 mm. (Fractions series)

With teacher's guide.
Summary: Reviews the measurement concept of division using whole numbers for illustration. Develops the rule for dividing by a fraction and explains why inverting the divisor and multiplying gives the correct answer.

—Another issue. b&w.

MATHEMATICS—Arithmetic

How to find the answer (Motion picture) Coronet Instructional Films, 1949.
11 min., sd., color, 16 mm.

Kodachrome.
With teacher's guide.
Summary: Outlines a method of solving certain practical mathematical problems both in and out of school and presents an exercise that can be used in solving problems in any subject: decide on data needed, organize data, estimate results, perform needed operations, check the answer.

—Another issue. b&w.

How to multiply fractions (Motion picture) Johnson Hunt Productions, 1948.
11 min., sd., color, 16 mm. (Fractions series)

With study guide.
Summary: Reviews the meaning of multiplication as applied to whole numbers, and extends the concept to fractions. Through animation demonstrates what actually happens to a fractional part when it is multiplied by another fraction.

—Another issue. b&w.

How to subtract fractions (Motion picture) Johnson Hunt Productions, 1948.
11 min., sd., color, 16 mm. (Fractions series)

With study guide.
Summary: Defines the terms of a fraction and illustrates their significance. Explains the process of subtraction and reviews the meaning of the minus sign. Shows how to subtract fractions which have a common denominator, subtract a fraction from a mixed number and a whole number. Demonstrates the necessity for having a common denominator. Includes sample problems.

—Another issue. b&w.

Introduction to fractions (Motion picture) Johnson Hunt Productions, 1947.
11 min., sd., color, 16 mm. (Fractions series)

With study guide.
Summary: Through animation shows the meaning and use of fractions. Explains the numerator, denominator, improper fractions, and mixed numbers. Includes several problems.

—Another issue. b&w.

Let's count (Motion picture) Coronet, 1948.
11 min., sd., color, 16 mm.

With teacher's guide.
Summary: Demonstrates the use of counting, distinguishes between counting and ordinal numbers, and illustrates the advantages of grouping, tally marks, and numerical symbols. For primary grades and teacher training groups.

—Another issue. b&w.

The meaning of long division (Motion picture) Encyclopaedia Britannica Films, 1947.
11 min., sd., b&w, 16 mm.

With teacher's guide.
Summary: Explains the meaning of long division. Shows that long division takes the place of a tedious succession of simple subtraction and ordinal numbers, and illustrates the advantages of grouping, tally marks, and numerical symbols. For primary grades and teacher training groups.

MATHEMATICS—Arithmetic

The meaning of percentage (Motion picture) Young America Films, 1948.
10 min., sd., b&w, 16 mm.
With teacher's guide.
Summary: Explains percentages both as fractions and as decimals, and shows relationship of common percentages to social situations. For grades 5-7.

Meaning of plus and minus (Motion picture) Encyclopedia Britannica Films, 1953.
12 min., sd., color, 16 mm.

Kodachrome.
Produced in collaboration with Scott, Foresman and Co.
With teacher's guide.
Summary: Elementary school children describe various incidents at their picnic which illustrate the meaning of the terms plus and minus.

Multiplication is easy (Motion picture) Coronet, 1948.

11 min., sd., color, 16 mm.
With teacher's guide.
Summary: Through animation the main steps in learning to multiply and the reasons multiplication is necessary to understand. Shows that multiplication can be useful, reversed, and even fun. For primary and intermediate grades and teacher training groups.

—Another issue b&w, 1

The number system (Motion picture) Encyclopedia Britannica Films, 1953.

11 min., sd., color, 16 mm.
Kodachrome.
Produced in collaboration with Scott, Foresman and Co.
Summary: A young boy learns how to count by putting his toy blocks into groups of ten, counting the groups of ten, and then counting as units the blocks which are left over.

Numbers for beginners (Motion picture) Johnson Hunt Productions, 1953.

11 min., sd., color, 16 mm.
With teacher's guide.
Summary: Through animation of familiar objects, visualizes the numbers from one through six to assist in separating the idea of number from the counting of objects. Explains group recognition and number relationships.
—Another issue b&w, 1

Parts of nine (Motion picture) Young America Films, 1948.

11 min., sd., b&w, 16 mm.
With teacher's guide.
Summary: Develops the meaning of the number 9 through the use of concrete materials involved in preparing for a birthday party. Explains 9 in social relation to 3, 3 as three groups of three each, and addition and subtraction facts involved in 9. For primary grades.

Parts of things (Motion picture) Young America Films, 1947.

10 min., sd., b&w, 16 mm.
With teacher's guide.
Summary: As an introduction to fractions demonstrates the meanings of $\frac{1}{2}$ and $\frac{1}{4}$ of single things through concrete, semi-concrete, and abstract objects with which the child is familiar. Explains abstract objects in relation to real things. For grades 2-4.

Percentage (Motion picture) Johnson Hunt Productions, 1949.

11 min., sd., color, 16 mm. (Fractions series)
With study guide.
Summary: Explains the relationship of percentage to common and decimal fractions. Illustrates how to change common and decimal fractions to percentage. Includes problems.
—Another issue b&w.

Ratio & proportion (Motion picture) Knowledge Builders, 1949.

12 min., sd., b&w, 16 mm.
With guide.
Summary: Shows some applications of the idea of ratio in various real-life situations. Points out the relationship between a ratio and a proportion. Discusses the "product of means equals the product of extremes" theorem. Emphasizes the usefulness of ratio as a means of comparing quantities.

Subtraction is easy (Motion picture) Coronet, 1948.

11 min., sd., color, 16 mm.
With teacher's guide.
Summary: Explains how to do subtraction, and demonstrates the application of subtraction to everyday life. For primary and intermediate grades, teacher training and adult groups.
—Another issue b&w

The teen numbers (Motion picture) Young America Films, 1948.

10 min., sd., b&w, 16 mm.
With teacher's guide.
Summary: Shows the meaning of the numbers 1-9 through the grouping of objects and by indicating these numbers in a series. Explains the meaning of the numbers 10-19 as groups of ten and ones and in relationship to the single-digit numbers. For primary grades.

We discover fractions (Motion picture) Coronet, 1948.

11 min., sd., color, 16 mm.
With teacher's guide.
Summary: Presents fractions in familiar terms, using examples such as a piece of pie and half an apple. Explains the meaning of numerator and denominator, relating the classroom symbols to concrete objects. For intermediate grades, junior high schools, and teacher training groups.
—Another issue b&w.

What are decimals? (Motion picture) Films Incorporated, 1949.

12 min., sd., b&w, 16 mm.
Summary: Using examples from everyday child life, explains the common parts of decimal fractions, the names of decimals, the practical advantages of the decimal system, and the significance of the measurement of quantities.

What are fractions? (Motion picture) Films Incorporated, 1947.

12 min., sd., b&w, 16 mm.
Summary: Using examples from everyday child experience, explains the relationship of parts to the whole, the reason for writing the fractions as we do, the difference between the numerator and the denominator, fractional parts of groups, etc.

What is four (Motion picture) Young America Films, 1946.

15 min., sd., b&w, 16 mm.
With teacher's guide.
Summary: Explains the meaning of numbers; illustrates the number four in a variety of concrete, semi-concrete, and abstract situations with which the child is familiar. For primary grades.

MATHEMATICS—Geometry

Angles (Motion picture) Knowledge Builders, 1945.

12 min., sd., b&w, 16 mm.
With guide.
Summary: Explains the various types of angles and their relationship to each other.

Angles & arcs in circles (Motion picture) Knowledge Builders, 1948.

12 min., sd., b&w, 16 mm.
With guide and manual.
Summary: Explains the measurement of central angles, arcs, inscribed angles, and angles formed by two chords. Introduces theorems and proofs and demonstrates them by means of animated drawings.

Applied geometry (Motion picture) Purdue Research Foundation, 1941.

16 min., sd., b&w, 16 mm.
With instructor's manual, work sheet.
Summary: Demonstrates nine common geometric constructions which occur frequently in drawing.

Areas (Motion picture) Knowledge Builders, 1948.

12 min., sd., b&w, 16 mm.
With guide and manual.
Summary: Explains the areas and uses for finding areas of various figures. Demonstrates methods for computing areas of rectangles, parallelograms, triangles, and circles. Shows how relations in the figures result in relationships in the formulas.

Chords & tangents of circles (Motion picture) Knowledge Builders, 1946.

12 min., sd., b&w, 16 mm.
With guide.
Summary: Illustrates the theorem on a perpendicular to a chord which bisects the chord and describes all types of tangents in detail.

MATHEMATICS—Geometry

The circle (Motion picture) Knowledge Builders, 1946.

12 min., sd., b&w, 16 mm.
With guide.
Summary: Explains important phases of the circle such as radii, diameters, chords, tangents, secants, arcs and central angles. Introduces theorems and proofs.

Congruent figures (Motion pictures) Knowledge Builders, 1940.

12 min., sd., b&w, 16 mm.
With guide.
Summary: Demonstrates the geometric principles for finding and proving that triangles with equal sides, equal angles, or the combinations of both are equal and congruent. Combines actual photographic scenes, animated drawings, and inferred equations.

Geometry and you (Motion picture) Coronet Instructional Films, 1948.

11 min., sd., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Shows how the construction of a model porch by two students requires the use of the protractor and ruler, and knowledge of rectangles, triangles, circles, and the principles of congruence, similarity, and symmetry.
—Another issue b&w, 1

Geometry in action (Motion picture) Bald Eagle Film Co., 1940.

10 min., sd., b&w, 16 mm.
Summary: Indicates the application of the laws of geometry to everyday living—in nature, in the home, at work, and at play. Shows how the motion is closely allied to this branch of mathematics.

Indirect measurement (Motion picture) Knowledge Builders, 1940.

12 min., sd., b&w, 16 mm.
With guide and manual.
Summary: Explains the need for indirect measurement techniques by showing specific situations where direct measurements cannot be made. Demonstrates three methods of indirect measurement: congruent triangles, similar triangles, and trigonometry.

Lines & angles (Motion picture) Knowledge Builders, 1945.

12 min., sd., b&w, 16 mm.
With guide and manual.
Summary: Visualizes the mathematical applications of basic geometry. Beginning with the erection of a perpendicular, illustrates the relationship of the perpendicular to the ordinary plumb bob, level, and square. Shows how angles are formed and measured, and the relationship of angles to each other and to the complete circle.

Locus (Motion picture) Knowledge Builders, 1947.

12 min., sd., b&w, 16 mm.
With guide.
Summary: Through a combination of animated drawings and photography, visualizes and explains the entire concept of locus.

MATHEMATICS—Geometry

The meaning of π (Motion picture) Coronet Instructional Films, 1949.

11 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Explains how π denotes the ratio of a circle to its diameter; shows the use of circles in art, industry, and commerce; outlines a study procedure by which the numerical value of π can be checked and reviewed; describes the discovery and importance of π .

— Another issue b&w.

Parallel lines (Motion picture) Johnson Hunt Productions, 1951.

11 min., ed., color, 16 mm.

With study guide.

Summary: Through animation illustrates the concept and definition of parallel lines; shows the utilization of parallel lines in industry and architecture, and gives specific examples of the application of the laws of parallel lines.

— Another issue b&w.

Polygons (Motion picture) Knowledge Builders, 1948.

12 min., ed., b&w, 16 mm.

With guide and manual.

Summary: Shows examples of polygons. Through animation, explains the meaning of polygon, convex, and concave. Describes the inscribed circle and the circumscribed circle of a regular polygon. Discusses in detail the "sum of the interior angles" theorem, and the "sum of the exterior angles" theorem.

Properties of triangles (Motion picture) Knowledge Builders, 1948.

12 min., ed., b&w, 16 mm.

With guide and manual.

Summary: Illustrates the practical importance of the rigidity of triangles by comparing the strength of triangles with the strength of two-sided figures. Through animation discusses the "angle bisector" theorem, and the "median" theorem. Shows the merging of lines and points where a triangle becomes equilateral.

Pythagorean theorem (Motion picture) Knowledge Builders, 1948.

12 min., ed., b&w, 16 mm.

With guide and manual.

Summary: Presents the historical background of the theorem, and includes a detailed discussion of the use of the 3-4-5 triangle by the Egyptians. Proves the theorem, and shows examples. Stresses the basic importance of the theorem.

Quadrilaterals (Motion picture) Knowledge Builders, 1947.

12 min., ed., b&w, 16 mm.

With guide.

Summary: Illustrates and explains the chief properties of important quadrilaterals, such as parallelogram, the rectangle, rhombus, square, trapezoid, and trapezium.

Rectilinear coordinates (Motion picture) Knowledge Builders, 1941.

12 min., ed., b&w, 16 mm.

With teacher's study guide.

Summary: Introduces the basic ideas of analytical geometry. Shows how a point moves and becomes a line. Explains positive and negative numbers from coordinate positions and tri-dimensional areas.

Similar triangles (Motion picture) Knowledge Builders, 1947.

12 min., ed., b&w, 16 mm.

With guide.

Summary: Shows properties and practical use of similar triangles, and demonstrates the "two angles equal" proposition. Gives an application of similar triangles to a geometric situation.

MATHEMATICS—Graphs

The language of graphs (Motion picture) Coronet Instructional Films, 1948.

14 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Illustrates types of graphs and explains their use and value in presenting statistical data. Shows how bar, line, circle, and pictograph graphs, together with other graphic representations, can be used.

— Another issue b&w.

MATHEMATICS—Measurement

Let's measure: inches, feet, and yards (Motion picture) Coronet, 1953.

11 min., ed., color, 16 mm.

Summary: A young boy, colorizing in estimate distances to taught by his father use a ruler and a yardstick to find the length of familiar objects.

— Another issue b&w.

Measurement (Motion picture) Coronet Instructional Films, 1947.

11 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Through simple examples illustrates how time, temperature, liquid measure, weight, cubic, square, and linear measure permeate everyday life in our society. Explains the importance of standardized measure.

— Another issue b&w.

Story of weights and measures (Motion picture) Coronet Instructional Films, 1954.

11 min., ed., color, 16 mm.

With study guide.

Summary: Traces the history of man's knowledge of measuring and explains how this knowledge has resulted in standard measures for length, area, and volume.

— Another issue b&w.

Telling time by the clock (Motion picture) Karl L. Kahn and Grant Evans. Released by Bailey Films, 1953.

11 min., ed., b&w, 16 mm.

Summary: Shows the basic principles of telling time and explains the relationship between days and hours, minutes and seconds, etc.

Weights and measures (Motion picture) Encyclopedia Britannica Films, 1954.

14 min., ed., b&w, 16 mm.

With film guide.

Summary: A young boy realizes the importance of weights and measures when he builds a model airplane and when he observes the measures when he builds a model airplane and when he observes the measures when he builds a model airplane.

MEDICINE—Anatomy

Anterior arm and forearm (Motion picture) Billy Burke Productions, 1941.

15 min., ed., color, 16 mm. (Surgical Anatomy Series)

Summary: Dissection from shoulder to wrist; insertion of muscles, location and relation of veins and arteries, action of nerves on hands and fingers. Examples of deformities, clawhand, wristdrop, resulting from injury to ulnar and radial nerves. Dissection on unembalmed cadavers shows natural color and condition of tissues involved.

Anterior wrist and hand (Motion picture) Billy Burke Productions, 1941.

15 min., ed., color, 16 mm. (Surgical Anatomy Series)

Summary: Layer by layer dissection of hand and fingers; position and relation of muscles, nerves, arteries, and veins. Action of each muscle. Dissection on unembalmed cadavers shows natural color and condition of tissues involved.

Duodenum, small and large intestines (Motion picture) Billy Burke Productions, 1941.

15 min., ed., color, 16 mm. (Surgical Anatomy Series)

Summary: Relation of duodenum and intestines to adjacent organs. Site of most frequent occurrence of ulcer; contrast in color and tissue of duodenum and jejunum. Transillumination of mesentery showing changes in structure of tissues and size of blood vessels as approach is made to terminal ileum of intestine. Kidney and surrounding anatomy in relation to second part of duodenum. Origin and termination of mesenteric artery. Site of many obstructions at route of mesenteric artery. Site of many obstructions at route of mesenteric artery. Site of many obstructions at route of mesenteric artery.

Functional anatomy of the hand (Motion picture) Joseph E. Markee and Don L. Eyer, 1951.

31 min., ed., color, 16 mm.

Summary: Reviews the motions of the hand, showing the muscles which cause these motions, and the origins and insertions of these muscles, as demonstrated in the intact cadaver hand, wrist, and forearm, and by detailed dissection of muscle attachments.

MEDICINE—Anesthesiology

Functional anatomy of the reproductive tract of the cow (Motion picture) Division of Veterinary Medicine, Iowa State College. Made and released by Visual Aids Production, Iowa State College, 1952.

45 min., ed., color, 16 mm.

Summary: Describes the anatomy and function of the reproductive tract of a cow, through pictures of the actual dissection of a cow, correlated with biological art work which emphasizes the material covered in the dissection.

Indirect inguinal hernia (Motion picture) Encyclopedia Britannica Films, Inc., 1952.

42 min., ed., b&w, 16 mm.

Summary: Anatomy of inguinal region. Diagrams illustrating inguinal hernia in groin as result of man's erect posture, descent of testis in fetus; diagrams showing anatomical landmarks; cadaver dissection showing anatomical structures encountered in dissection procedure; diagrams showing relationship of these structures as viewed from within abdominal cavity. Clinical aspects: Animated diagrams superimposed over actual cases illustrate incomplete hernia, complete or scrotal hernia, incomplete indirect hernia, and complete direct hernia. Surgical treatment. Essential steps in repair of indirect inguinal hernia.

— Another issue. 35 mm.

Kidneys, ureters and bladder, their structure and function (Motion picture) Bray Studios, 1947.

10 min., ed., b&w, 16 mm.

Summary: A description of the important anatomical features of the kidneys, the ureters, and the urinary bladder. Through animated drawings illustrates the functional relationships of the constituent parts of the system, the process of urine formation, and the elimination of waste matter.

Lateral neck (Motion picture) Billy Burke Productions, 1941.

15 min., ed., color, 16 mm. (Surgical Anatomy Series)

Summary: Exposure of deep cervical fascia, external jugular vein and superficial cervical nerves. Dissection carries through muscles, demonstrating all anatomy relevant, including common carotid artery, vagus nerve, recurrent laryngeal nerve, etc., in relation to the thyroid gland and each other. Dissection on unembalmed cadavers shows natural color and condition of tissues involved.

The skeleton (Motion picture) Encyclopedia Britannica Films, 1953.

13 min., ed., b&w, 16 mm.

With teacher's guide.

Summary: Animated sequences are used in presenting a discussion of the development and functions of various bones which form the human body and explaining how food and exercise influence the growth and strength of bone.

MEDICINE—Anesthesiology

The advent of anesthesia (Motion picture) Mallinckrodt Chemical Works, 1948. Made by Audio Productions.

9 min., ed., b&w, 16 mm.

Summary: Recreates the first public demonstration of ether anesthesia by Morton, utilizing original equipment, replicas, and contemporary surgical techniques. For students of medicine, pharmacy, and anesthesia.

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Summary: A preliminary method and preliminary effects of carbon dioxide under certain circumstances.

— Another case. 32 yrs.

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and more, and made the overland drive in one day
over a period of from 24 hours to 15 days. For sickness of minor
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MEDICINE—Bacteriology

Budding yeasts: monilia (Motion picture) Adrianus Pijper, Pretoria, South Africa; made 1947. Released in the U. S. by Harry E. Morton.

4 min., ed., b&w, 16 mm.

Summary: Through time-lapse photography shows the formation and growth of a budding yeast cell, and the flow of granules from the mother cell into the daughter cell. Follows one yeast cell until it has grown, due to time-lapse, through the stages of budding, germination, and mycelium.

Chromatography of Proteus vulgaris: Time lapse photographs of normal growth and the effect of penicillin (*Proteus vulgaris*). Westchester Medical School, Larchmont, Made by SMPCT, 1948. Released in the U. S. by Society of American Bacteriologists.

2 min., ed., b&w, 16 mm.

Summary: Shows the normal growth of *Proteus vulgaris* contained with growth in the presence of penicillin, whereas the microorganisms fail to divide, but swell and burst. For students of bacteriology.

Filariasis of the eye caused by Loa loa (Motion picture)

George P. Landis; made 1948. Released by George P. Landis and Society of American Bacteriologists.

8 min., ed., color, 16 mm.

Summary: Demonstrates microfilm of *Loa loa* in fresh blood preparations. Shows worms actively moving in the serum of two patients. Includes diagnostic points. For students of tropical medicine.

Germination of spores of bacteria (Motion picture)

Society of American Bacteriologists, 1950.

2 min., ed., b&w, 16 mm.

Summary: Student medium, 25° and 37° centigrade at pH 7.4. Interval of exposure just shown. Spontaneous germination illustrated by *Staphylococcus aureus*. Germination verified by spreading, illustrated by the *Staphylococcus aureus* and *Escherichia coli*. Germination illustrated by *S. aureus* and *E. coli*. Each type of germination shown. (Dr. S. Edgar-Jones)

Globulin modified antitoxins (Motion picture) American

Cummins Company, Lederle Laboratories Division, 1947.

15 min., ed., color, 16 mm.

Summary: Based on production and assessment of diphenyl ether. The ether is used for strongly estimating presence of globulin toxin or toxin.

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The growth of bacteria, yeast, and molds (Motion picture) Ralph W. G. Wyck; made 1938. Released by Committee on Materials for Visual Instruction in Microbiology, Society of American Bacteriologists.

22 min., ed., b&w, 16 mm.

Summary: Shows reproduction by yeast, budding, and branching in bacteria, yeast, and molds. Emphasizes colony development, pigment production, vacuole formation, septum formation, and protoplasmic streaming.

Infectious hazards of bacteriological techniques (Motion picture) U. S. Public Health Service in cooperation with Biological Laboratories, U. S. Army Chemical Corps, 1951.

15 min., ed., color, 16 mm.

Summary: Illustrates hazards of bacteriological techniques.

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Motility and flagella (Motion picture) Adrianus Pijper, Pretoria, South Africa; made 1950. Released in the U. S. by Society of American Bacteriologists.

15 min., ed., b&w, 16 mm.

Summary: Illustrates the motility of several species of bacteria, and the effect of penicillin on the morphology and motility of *Proteus vulgaris*. For students of bacteriology.

Motility of bacteria (Motion picture) Eastman Kodak Co., Research Laboratories. Made by Photomicrography Dept., 1950. Released by Committee on Materials for Visual Instruction in Microbiology, Society of American Bacteriologists.

6 min., ed., b&w, 16 mm.

Summary: Pictures brownian movement and various types of bacterial movement in stained and dark-field preparations. For students of microbiology.

Preservation of bacteria by desiccation in vacuo (Motion picture) U. S. Public Health Service, 1949.

11 min., ed., b&w, 16 mm.

Summary: Demonstrates the technique for desiccation in vacuo as a method of preservation for most bacteria.

Schistosoma haematobium, eggs and miracidia (Motion picture) Adrianus Pijper, Pretoria, South Africa; made 1947. Released in the U. S. by Harry E. Morton.

4 min., ed., b&w, 16 mm.

Summary: In dark-field preparations shows eggs hatching in urine to liberate miracidia motile by means of cilia and body contraction. For students of parasitology.

Shape and motility of "bacteria" (Motion picture) Adrianus Pijper, Pretoria, South Africa; made 1947. Released in the U. S. by Society of American Bacteriologists.

25 min., ed., b&w, 16 mm.

Summary: Demonstrates the shapes and motility of various microorganisms, with emphasis on *E. coli*. States Dr. Pijper's theory of bacterial motility. For students of bacteriology.

Skin antiseptics; evaluation of effectiveness of some widely employed antiseptics (Motion picture) Iodine Educational Bureau, 1948. Made by Audio Productions.

25 min., ed., b&w, 16 mm.

Summary: Compares the efficiency of iodine with mercurials as agents of disinfection, by means of the phenol coefficient and agar cup methods, interperitoneal neonatal technique, and toxicity tests with chick embryos and rabbits and guinea pig skins. For students of bacteriology and bacteriology.

Sporotrichum growing on agar surface (Motion picture) Adrianus Pijper, Pretoria, South Africa; made 1947. Released in the U. S. by Harry E. Morton.

4 min., ed., b&w, 16 mm.

Summary: Agar, in an open petri dish, is inoculated with *Sporotrichum* spores, growth is followed for four days showing development of the whitish, rugose surface. For students of bacteriology and mycology.

Trichomonas vaginalis from human vagina (Motion picture) Adrianus Pijper, Pretoria, South Africa; made 1947. Released in the U. S. by Society of American Bacteriologists.

4 min., ed., b&w, 16 mm.

Summary: In dark-field preparations demonstrates trichomonas vaginalis specimens, illustrating the structural details. For students of parasitology.

MEDICINE—Bacteriology

Studies in bacteriology. Part 1: Classification (Motion picture) U. S. Public Health Service, 1953.

4 min., ed., b&w, 16 mm.

Summary: Based on photography done in 1950-51 by R. P. Loveland of Eastman Kodak Co. Research Laboratories. **Summary:** Shows by cinematography and explains by caption the characteristics of five families of bacteria: Anisobacteriaceae, Micrococaceae, Enterobacteriaceae, Bacillaceae, and Actinobacteriaceae.

Studies in bacteriology. Part 2: Motility (Motion picture) U. S. Public Health Service, 1953.

6 min., ed., b&w, 16 mm.

Summary: Based on photography done in 1950-51 by R. P. Loveland of Eastman Kodak Co. Research Laboratories. **Summary:** Shows by cinematography and explains by caption the motility of monotrichous, amphotrichous, and peritrichous bacteria.

Studies in bacteriology. Part 3: Cell division (Motion picture) U. S. Public Health Service, 1953.

6 min., ed., b&w, 16 mm.

Summary: Based on photography done in 1950-51 by R. P. Loveland of Eastman Kodak Co. Research Laboratories. **Summary:** Shows by cinematography and explains by caption the process of cell division of spherical and rod-shaped bacteria.

Sulfonamide therapy (Motion picture) Lederle Division, American Cyanamid Co.; made 1952. Released by Film Library, Lederle Division, American Cyanamid Co.

45 min., ed., color, 16 mm.

Summary: Depicts the history of development of the sulfonamides, their bacteriological and pharmacological aspects, and their clinical uses. For students of bacteriology, pharmacology, pathology, medicine, and surgery; nurses and pharmacists.

The technic of Gram's stain (Motion picture) Society of American Bacteriologists, University of Pennsylvania, 1950.

19 min., ed., color, 16 mm.

Summary: Technique of Gram's stain demonstrated by close-up views. Significance of various steps explained. Theories of Gram stain, and importance of reaction of microorganisms to Gram's stain, discussed in a study guide supplied with the film. (Drs. W. W. Smith, Harry E. Morton, and Warren Sturgis)

Treponema pallidum from syphilitic ulcer (Motion picture) Adrianus Pijper, Pretoria, South Africa; made 1947. Released in the U. S. by Society of American Bacteriologists.

4 min., ed., b&w, 16 mm.

Summary: Demonstrates typical dark-field appearance of *Treponema pallidum* from a syphilitic primary ulcer. For students of bacteriology.

Trichomonas vaginalis from human vagina (Motion picture) Adrianus Pijper, Pretoria, South Africa; made 1947. Released in the U. S. by Society of American Bacteriologists.

4 min., ed., b&w, 16 mm.

Summary: In dark-field preparations demonstrates trichomonas vaginalis specimens, illustrating the structural details. For students of parasitology.

MEDICINE—Bacteriology

Typoid bacilli: a study of their motility and agglutination (Motion picture) Adnanus Pijper, Pretoria, South Africa, made 1941. Released in the U. S. by Harry E. Morison.
17 min., ed., b&w, 16 mm.
Summary: Shows the use of the cooled flagellar tail in propelling the typhoid bacterium. Shows details of the agglutination reaction in specific serum (U. S. 57) for bacteriological and medical students.

Urinary infections: bacteriology, pathology and treatment (Motion picture) (Nepco Chemical Co., 1951).
43 min., ed., color, 16 mm.

Summary: Source of urinary infections; underlying bacteriology; Three routes of infection; foot of infection; and urinary tract; bacteriological and radiological methods for laboratory examination of infecting organisms to establish coordinated regimen of treatment. (Dr. Grayson L. Carroll, Victor L. Marshall).

MEDICINE—Child Care

Babies, babies and babies (Motion picture) New York State Department of Health, 1940.
8 min., ed., b&w, 16 mm.

Summary: Department nurse instructs other nurses and mothers how to baby infant. Adaptation of methods to varied home conditions. 35 min.
—Another issue: 35 min.
—Another issue: 35 min.

A baby's day at twelve weeks (Motion picture) Epi Films, 1941. (Later name: Encyclopedia Britannica Films) 1954.
11 min., ed., b&w, 16 mm. (Overall film series)
Summary: Twelve effective daily routine and care for the infant at twelve weeks. Activities are active day from the baby's waking, 9 a.m., until the final breast-feeding at 10 p.m. Includes the importance of rest, sleep, play, and the day, and directs attention to the necessity of regular elimination. Emphasizes the psychological implications and the enormous significance of the infant's everyday experience at this age.

Baby's day at forty-eight weeks (Motion picture) Epi Films, 1941. (Later name: Encyclopedia Britannica Films) 1954.
11 min., ed., b&w, 16 mm. (Overall film series)
Summary: Illustrates methods of infant care at forty-eight weeks. Demonstrations include bathing, feeding, playing, and sleeping. Emphasizes the importance of rest, sleep, play, and the day, and directs attention to the necessity of regular elimination. Emphasizes the psychological implications and the enormous significance of the infant's everyday experience at this age.

The baby's bath (Motion picture) Yale Clinic of Child Development, Released by Encyclopedia Britannica Films, 1947.
9 min., ed., b&w, 16 mm.
Summary: Illustrates prescribed methods for administering the baby's bath during the first year of life. Calls attention to the infant's growing ability to participate actively and enjoy his bath. Indicates that the bath is an opportunity for physical exercise and social contact with the mother as well as a means for achieving cleanliness.

Baby's first year (Motion picture) Knowledge Builders, 1953.
12 min., ed., b&w, 16 mm.

With guide.
Summary: Shows the care of the mother, pointing out the value of a trained nurse, proper food, and rest. Illustrates essential for the baby's clothes, food, etc. Discusses in detail the baby's schedule, including breast feeding, bathing, and sleep. Explains protection of the baby from contagion by adults.

Bathing time for baby (Motion picture) Johnson & Johnson, 1948. Produced by Walt Disney Productions.
13 min., ed., color, 16 mm.

With instruction booklet.
Summary: Demonstrates the complete technique of the table-top bath.

Bathing your baby (Motion picture) Homemakers' Products Corporation, 1954.
10 min., ed., color, 16 mm.

Care of the newborn baby: the nurse's role in instructing the parents (Motion picture) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1944. Produced by John A. Hasselberg.
21 min., ed., b&w, 16 mm. (Nursing series)
Order on GPO 44-141.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Nurse's function and duties in teaching parents to care for newborn babies; what the nurse can do in the home, clinic and hospital; and how to hold, dress, bathe, and feed a baby.
—Another issue: b&w.

Clothing a champion (Motion picture) New York State Department of Health, 1939.
10 min., ed., color, 16 mm.
Summary: Daily routine of normal, healthy infant. Approved methods of baby care as adapted and practiced by individual mother and father who cooperate to keep their own schedule.

Infant care and feeding (Motion picture) U. S. Information Agency, 1950.
9 min., ed., color, 16 mm.
Summary: Emphasizes that with four healthy children is expected. "Little Number Five" Wise mother observing proper diet, taking care of herself and baby while he is very young; proper feeding after he begins to take solid food. By visiting prenatal clinic she helps to make him strong and healthy.

MEDICINE—Communicable Diseases

The ancient cure (Motion picture) U. S. Dept. of State, 1922. Produced by Educational Film Corp. of America. Released for educational use in the United States through U. S. Office of Education, 1952.
44 min., ed., b&w, 16 mm.

Summary: Emphasizes the importance of international cooperation in eradicating deadly diseases throughout the world, and explains the work of the World Health Organization with particular reference to the anti-malaria campaign in Thailand.
—Another issue: 35 min.

Asiatic schistosomiasis (Motion picture) U. S. Dept. of the Navy, 1940. Produced by Audio Productions. Released for public educational use through U. S. Office of Education, 1949.
22 min., ed., color, 16 mm.
Order on GPO 49-1025.

Summary: Explains the cause and effects of schistosomiasis, and demonstrates preventive and control measures.

Birthing (Motion picture) Columbia University, 1951.
45 min., ed., b&w, 16 mm.

Summary: How unborn child was saved from syphilis infection unperceived until late in pregnancy. Community's organized effort to combat congenital syphilis.

The common cold (Motion picture) Encyclopedia Britannica Films, 1949.
11 min., ed., b&w, 16 mm. (Health and hygiene)
With teacher's guide.

Summary: Illustrates facts known about the common cold and about the secondary infections that may grow out of it. Tells the story of a boy who contracts a cold and visits his doctor for treatment and advice. Reveals by means of the doctor's illustrated explanation, why the common cold is serious and how it should be treated.

Communicable diseases (Motion picture) Cutter Laboratories, 1940. Made by the Isolation Hospital of San Francisco and Oakland, in cooperation with local Health Dept.
35 min., ed., color, 16 mm.
Summary: Illustrates various aspects of common virus and bacterial diseases among children. Discusses some clinical manifestations of diseases such as measles, mumps, rubella, typhoid, pneumonia, scarlet fever, and pertussis, and describes the mode of transmission, incubation period, and the course of each disease. For medical students and nurses.

Determination of types of C. diphtheriae (Motion picture) U. S. Public Health Service, 1950.
11 min., ed., b&w, 16 mm. (Laboratory diagnosis of diphtheria series, no. 2)
Order on GPO 50-1082.
With collection guide.
Summary: Shows procedures for determining cultural types of *Corynebacterium diphtheriae*, hemolysis and immunologic tests, and observation of colony forms.
—Another issue: 35 min.

MEDICINE—Communicable Diseases

The diagnosis of poliomyelitis (Motion picture) The National Foundation for Infantile Paralysis, 1951.
20 min., ed., b&w, 16 mm.

Summary: Doctor called to treat young boy with "polio" like symptoms, takes case history, makes physical examination. Review by actual clinical examples of outstanding symptoms of spinal and bulbar poliomyelitis which doctor looks for during physical examination. Examples of conditions with which poliomyelitis is most frequently confused. Graphic information on pathology of poliomyelitis; significance of findings in cerebrospinal fluid. Transfer of boy to hospital when case is diagnosed as poliomyelitis; importance of keeping patient's body in good alignment to prevent deformities.

Diphtheria and croup (Motion picture) American Cyanamid Company, Lodelo Laboratories Division, 1938.
45 min., ed., b&w, 16 mm.

Summary: Hospital management of clinical diphtheria; laboratory, including, cultivation, bacteriology. Nursing care and aseptic technique. Bacteriology of diphtheria, Schick testing, active immunization.

The epidemiology of influenza (Motion picture) U. S. Public Health Service, 1950.
13 min., ed., b&w, 16 mm.

Order on GPO 50-1054.
Summary: Reviews the historical significance of influenza; discusses its behavior and periodicity; and explains the program of the World Health Organization with regard to the disease.

The fight against the communicable diseases (Motion picture) U. S. Public Health Service, 1950.
18 min., ed., color, 16 mm.
Order on GPO 50-1055.

Summary: Describes the organization and activities of the Communicable Disease Center at Atlanta, Ga., its relationship with other U. S. Public Health Service activities, and its service to local and State health departments.

Fight syphilis (Motion picture) United States Department of Health, Education and Welfare, United States Public Health Service, 1943.
10 min., ed., b&w, 16 mm. (Part A)

Summary: How to combat syphilis, emphasizing individual's role: blood tests, avoidance of exposure, proper treatment, avoidance of sexual contact.
—Another issue: 35 min.

Fight syphilis (Motion picture) United States Department of Health, Education and Welfare, United States Public Health Service, 1943.
20 min., ed., b&w, 16 mm. (Part B)
Summary: Also the community's job: education, clinics, follow-up workers, to avoid links on the nation in cost of supporting the blind, insane and unemployables crippled by syphilis.

MEDICINE—Communicable Diseases

Goodbye, Mr. Gurn (Motion picture) National Tuberculosis Association, 1940.
14 min., sd., b&w, 16 mm.
Summary: The basic facts about tuberculosis presented through animated cartoons.
— Another issue. 33 min.

How disease travels (Motion picture) U. S. Office of Inter-American Affairs, 1943. Produced by Walt Disney Productions. Released by U. S. Institute of Inter-American Affairs, 1943.
11 min., sd., color, 16 mm. (Health for the Americas series)
Summary: Shows how disease microbes are spread in a community by water, food and person-to-person contact; and suggests sanitary precautions. Animated cartoon.

The inside story (Motion picture) National Tuberculosis Association, 1932. Produced by Leslie Bush Productions.
11 min., sd., color, 16 mm.
With public discussion leaders.
Summary: A lecture demonstration which presents information about the tuberculosis germ, the cause and development of the disease, and the ways in which it is treated and controlled. Designed for high school, college, and adult audiences.

The invader (Motion picture) Centre for Mass Communication, 1933. Made by Pathephone Film Producers.
37 min., sd., b&w, 16 mm.
Summary: Traces man's efforts since the 17th century to cope with the problem of malaria. Shows the step-by-step development of medical knowledge, and the changes in public attitude toward the disease. Dramatizes the story from the 17th to the 19th centuries by means of contemporary scenes, contemporary pictures, and drawings by such artists as Elton, Rembrandt, Hogarth and Turner; and the late story with several photographs of Elton and Turner, and motion picture records of the work of Fleming, Huxley and others.

It's up to you (Motion picture) New York State Department of Health, 1932.
10 min., sd., b&w, 16 mm.
Summary: Purpose and value of community chest x-ray surveys. Steps involved in organization and operation of surveys. Importance of tuberculosis in survey promotion. (Primarily a film to train volunteers).

Know the cure (Motion picture) U. S. Public Health Service, 1943. Made by the Research Council of the Academy of Motion Picture Arts and Sciences.
20 min., sd., b&w, 16 mm.
Summary: Dramatized story of an immigrant developer whose first child is born dead because of syphilis and who learns, from his doctor, of the nature of infection, early symptoms, clinical treatment, and prevention of syphilis.
— Another issue. 33 min.

The laboratory diagnosis of influenza (Motion picture) U. S. Public Health Service, 1939.
12 min., sd., b&w, 16 mm.
Order no. 4-101.
Summary: Explains and demonstrates the procedures used in laboratory diagnosis of influenza, including collection of specimens, isolation of the virus by intracerebral inoculation of chick embryos, isolation of the virus by intracerebral inoculation of chick embryos, and the use of various laboratory tests, including virus isolation, hemagglutination tests, and neutralization tests. Primarily for laboratory technicians.

Let's keep the killer down (Motion picture) National Motion Picture Co., 1942.
10 min., sd., b&w, 16 mm.
Short version also issued.
Summary: Presents the diagnosis, treatment, and prevention of diphtheria.
— Another issue. 35 min.

Management of streptococcal infection and its complications (Motion picture) Wyeth Incorporated, 1955.
min., sd., b&w, 16 mm.

Message to women (Motion picture) U. S. Public Health Service, 1943. Made by Hugh Harmon Productions.
20 min., sd., color, 16 mm.
Technicolor.
Summary: Explains facts about gonorrhea and syphilis; illustrates by animated charts the effects of these diseases upon women; explains the importance of knowing about these diseases.
— Another issue. 35 min.

Miracle of living (Motion picture) U. S. Dept. of the Army, 1947. Released for public educational use through U. S. Office of Education, 1949.
40 min., sd., b&w, 16 mm.
Order no. TP-1474.
Summary: A dramatized story illustrating some of the possible consequences of mental disease.
— Another issue. 33 min.

On guard (Motion picture) New York State Department of Health, 1935.
3 min., sd., b&w, 16 mm.
Summary: Dramatic story of application of medical science to saving of human lives from diphtheria; development of world as preventive of disease.
— Another issue. 35 min.

Plague (Motion picture) Karl F. Meyer, made 1941.
20 min., sd., color, 16 mm.
Summary: Shows experimental methods for the study of the human body in the laboratory and during the 1941 California plague epidemic. Describes plague in Asia and Europe, plague in rodents. For students of bacteriology, medicine, veterinary medicine, and public health.

Plague control (Motion picture) U. S. Dept. of the Navy, 1945. Produced by Pathoscope Productions. Released for public educational use through U. S. Office of Education, 1945.
21 min., sd., color, 16 mm.
Order no. MN 490.
Summary: Explains the chief clinical types of plague, the type of environment in which plague tends to flourish, the role of the rat and rat flea, and rat control measures.

Pneumonia (Motion picture) Erpi Classroom Films (later name Encyclopedia Britannica Films). Released by Division of Health Education, Pennsylvania State Dept. of Health, 1941.
22 min., sd., b&w, 16 mm.
Long version.
Summary: Discusses the death rate from pneumonia and traces the spread of the disease, and its diagnosis and treatment in a typical case. Animated photography illustrates the entrance of pneumococci into the lungs, reaction of the lungs to the infection, and response to immune serum. Emphasizes the importance of calling the physician, immediate action, and proper drug and serum, proper diet, and early diagnosis and typing, proper drug and serum, proper diet, and early action devices. Includes remarks by Dr. A. H. Stewart.

Polymyositis in monkeys and rodents (Motion picture) Clara W. Jungblut and Murray Sanders, made 1942. Released by Columbia University Educational Films.
58 min., sd., b&w, 16 mm.
Summary: Shows the isolation and identification of the SK polymyositis virus by animal passage, tissue culture, serology, and by the interference phenomenon. For students in bacteriology, public health and medicine.

Scarlet fever (Motion picture) American Cyanamid Company, Lederle Laboratories Division, 1938-42.
35 min., sd., color, 16 mm.
Summary: Real 1. Child with scarlet fever is presented, showing rash, circumoral pallor, strawberry tongue and raspberry tongue. Scarlet fever differentiated from measles. Pneumonia patient exhibiting sulfathiazole rash; importance of differentiating scarlet fever from various drug rashes. Confirmation of scarlet fever rash by bleaching test. Intradermal test for sensitivity to horse serum; plan for passive immunization with scarlet fever antitoxin. Importance of taking cultures from nose and throat emphasized.
Real 2. Table shows incidence of complications in presence of and in absence of treatment with antitoxin. Chart shows increasing incidence of complications with each day of delay in giving antitoxin. Large scale Dick testing; negative and positive reaction to test.
Real 3. Immune carriers, infected susceptible, and non-infected susceptible individuals defined. Plan for active immunization with scarlet fever toxin presented.

The setting of endemic schistosomiasis in Puerto Rico (Motion picture) U. S. Public Health Service, 1948.
4 min., sd., b&w 16 mm (Schistosomiasis manual study film)
Order no. 4-002.
Summary: Illustrates three characteristic infection patterns of endemic schistosomiasis in Puerto Rico: pollution of a river, a brook, and sugar cane irrigation ditches by inadequate sewage disposal systems.
— Another issue. 35 min.

MEDICINE—Communicable Diseases

Sniffles and sneezes (Motion picture) McGraw-Hill Book Co., 1955. Made by Audio Productions.
10 min., sd., b&w, 16 mm. (Health and safety for you series)
Correlated with the book *Health and safety for you* by Harold S. Dight and Anita B. Loring.
Summary: Explains that colds are the result of viruses, portrays common ways of spreading cold germs, and illustrates how the body defends itself against germs. Shows how to prevent colds and what to do if a cold has started.

They do come back (Motion picture) National Tuberculosis Association, 1945.
17 min., sd., b&w, 16 mm.
Summary: Dramatic narrative of battle against tuberculosis waged by young man and his fiancée. Community's organized program for tuberculosis control; methods in tuberculosis case-finding, diagnosis, treatment and cure.

This is TB (Motion picture) National Tuberculosis Association, 1946. Made by Emerson Yorke Studio.
10 min., sd., b&w, 16 mm.
Spanish version released under the title *Esta es la TB*. With film titled *TB facts*, and a booklet entitled *You can beat TB*.
Summary: A documentary about the cause, spread, and treatment of tuberculosis.
— Another issue. 35 min.

Three counties against syphilis (Motion picture) U. S. Public Health Service, 1939. Made by U. S. Dept. of Agriculture.
19 min., sd., b&w, 16 mm.
Summary: Portrays a demonstration project in southeastern Georgia, involving Federal, State, and County health services, to locate cases of syphilis and provide the necessary treatment.

Trail to health (Motion picture) U. S. Indian Service, 1940.
20 min., sd., color, 16 mm.
Summary: How two Pueblo Indians learn that they have tuberculosis and how they are cured. Includes portrayal of Indian home life.

Tuberculosis (Motion picture) Encyclopedia Britannica Films, 1955.
10 min., sd., b&w, 16 mm.
Third edition.
With film guide.
Summary: Discusses cause of the spread of tuberculosis in the United States and stresses the need for community action in combating the disease. Dramatizes the case history of a young woman, showing how infection takes place and how poor health habits weaken the body and permit the disease to develop. Shows the work of a mobile X-ray unit. Includes animated sequences.

Tuberculosis (Motion picture) U. S. Office of Inter-American Affairs, 1945. Produced by Walt Disney Productions. Released by U. S. Institute of Inter-American Affairs, 1945.
10 min., sd., color, 16 mm. (Health for the Americas series)
Summary: Explains the cause, symptoms, and transmission of tuberculosis; and emphasizes that the disease is controllable and curable. Animated cartoon.

MEDICINE—Communicable Diseases

Tuberculosis and how it may be avoided (Motion picture)
Encyclopedia Britannica Films, 1949.

11 min., ed., b&w, 16 mm.
Summary: How tubercle bacilli are grown in laboratory, how stained, appearance under microscope. Where tubercle bacilli and infection in lungs, the lymphatic; how they infect tubercle bacilli which escape trailing-off process of first infection. How body cells become sensitive and react more promptly to later infection. Thorough physical examination illustrated; tuberculin test applied, positive reaction shown, x-ray pictures reproduced. They examined then gone on prevention to avoid further infection; intensive health training. Typical daily routine at prevention.

What is disease? (Motion picture) U. S. Office of Inter-American Affairs, 1949. Produced by Walt Disney Productions. Released by U. S. Institute of Inter-American Affairs, 1949.

11 min., ed., color, 16 mm. (Health for the Americas series)
Summary: Explains that disease can be caused by tiny living creatures so small they cannot be seen without a microscope; and suggests ways to protect oneself against disease. Animated cartoon.

You can lick TB (Motion picture) U. S. Veterans Administration, 1949.

18 min., ed., b&w, 16 mm.
Summary: Presents the dramatized story of a typical tuberculosis patient in a Veterans Administration Hospital. Shows the importance of rest, readjustment to a less strenuous life, and taking an interest in the VA rehabilitation program in order to become fitted for work within one's physical capacities.
—Another issue. 35 min.

MEDICINE—Dermatology

Allergy (Motion picture) Brod Ratner, M.D., 1955.

35 min., ed., b&w, 16 mm.
Summary: Real I: Anaphylaxis and allergy: phenomena of protein hypersensitivity. Allergy clinically manifested in form of asthma, hay fever, eczema, urticaria, angioedema, allergic rhinitis, allergic conjunctivitis, allergic dermatitis, and possibly other disease entities. Anaphylaxis in experimental animals demonstrated. Anaphylaxis in experimental animals illustrated by animation. Cellular theory. Real II: Anaphylaxis in Guinea pig, rabbit, dog. Real III: Sensitization through feeding and inhalation. Demonstration of experimental asthma. Reproduction of spontaneous anaphylaxis in man. Prevalence of major allergens (ash, hay fever, eczema, urticaria, of allergic urticaria), minor allergic manifestations. Search for the offending protein: observation, best demonstrated in skin tests with various proteins. Two methods of desensitization: (1) intracutaneous injection, and (2) scratch. Limitations of skin test sites. Treatment. Desensitization of hay fever response: (1) "preseasonal" method, (2) "perennial" method.

Tattooing of skin grafts and port wine stains (Motion picture) Herbert Conway, 1947. Made by Medical Film Guild.

12 min., ed., ed. spec., color, 16 mm.
Summary: Demonstrates a technique of tattooing for coloration of facial skin grafts and for camouflage of epiphyseal hemangiomas (port wine stains) on patients who are shown both before and after treatment. For dermatologists, plastic surgeons.

MEDICINE—Endocrinology

Hypothyroidism—physiology, diagnosis, and treatment (Motion picture) Jacob Lerman. Made and released by Medical Film Guild; made 1946.

30 min., ed., color, 16 mm.
Summary: An illustrated lecture explaining the anatomy of the thyroid, the classification and etiology of hypothyroidism and its causes, the regulation of thyroid activity, the physiology and pharmacology of thyroidine, the biochemistry of thyroidine, the methods of assay of thyroid operations, and the diagnosis and treatment of hypothyroid disease. For students and general practitioners.

MEDICINE—First Aid

Artificial respiration, the back-pressure arm-lift method (Motion picture) U. S. Dept. of the Navy, 1953. Made by Audio Productions.

10 min., ed., b&w, 16 mm.
Order no. MN 7454.
Summary: Demonstrates the back-pressure arm-lift method of resuscitation; explains the advantages and uses of this method, and shows alternative methods for use in unusual circumstances.
—Another issue. 35 min.

Back to life (Motion picture) Aetna Casualty & Surety Company, 1948.

8 min., ed., color, 16 mm.
Summary: Proper method of administering artificial respiration dramatically illustrated: preparation of patient, proper position of operator, placement of hands, movement of compression and release; how to change operators without loss of essential rhythm.

Clinical shock (Motion picture) U. S. Dept. of the Army, 1952.

48 min., ed., b&w, 16 mm.
Order no. PAF 5108.
Summary: Through animation and pictorial clinical history, demonstrates the basic mechanism of shock, methods of diagnosis, and principles of shock management.
—Another issue. 35 min.

First aid, Part 1: Major wounds, fractures, and burns (Motion picture) U. S. Dept. of the Army, 1950.

35 min., ed., b&w, 16 mm.
Order no. TF 8-1571.
Summary: Explains the responsibility of soldiers to be able to give first aid to their wounded comrades until medical aid is available, and demonstrates how to stop bleeding, protect the wound from infection, splint a fracture, and treat for shock.
—Another issue. 35 min.

First aid, Part 2: Everyday emergencies (Motion picture) U. S. Dept. of the Army, 1951.

33 min., ed., b&w, 16 mm.
Order no. TF 8-1581.
Summary: Describes first aid measures for poisoning, snake bites, scratches, blisters, fainting, foreign objects in the eye, and other minor diseases and injuries.
—Another issue. 35 min.

First aid: fundamentals (Motion picture) Coronet Instructional Films, 1953.

11 min., ed., color, 16 mm.
With study guide.
Summary: Defines first aid as the first emergency help given to an injured or sick person to help ease pain and prevent further injury. Explains how to treat skin wounds, minor burns, sprains, and broken bones; how to administer artificial respiration; and how to stop bleeding and prevent infection and shock.

—Another issue b&w.

First aid in the prevention of shock (Motion picture) U. S. Dept. of the Army, 1950. Released for public educational use through U. S. Office of Education, 1952.

26 min., ed., b&w, 16 mm.
Order no. TF 8-1626.
Summary: Demonstrates proper and improper methods of handling shock.
—Another issue. 35 min.

First aid on the spot (Motion picture) Encyclopedia Britannica Films, 1951.

11 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Features five common types of injuries or disabilities and explains American Red Cross techniques for handling each case. Demonstrates how to care for head, burns, and shock; stop bleeding; control bleeding; and administer artificial respiration.

First aid: wounds and fractures (Motion picture) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1941.

11 min., ed., b&w, 16 mm.
Summary: Stresses the importance of training and practice in gaining a knowledge of first aid. Describes, in a dramatized sequence, the procedures in caring for an injured person from the time of injury until medical aid arrives. Demonstrates various techniques including treatment for shock, methods of stopping bleeding, and immobilizing of fractured bones with splints and braces.

Handle with care (Motion picture) Aetna Life Affiliated Companies, 1947.

14 min., ed., color, 16 mm.
Summary: Demonstrates first aid treatment for fractures, wounds, burns, snake bleeding, and shock, gives instructions for improvising and applying splints, tourniquets, bandages, and other first aid materials.

MEDICINE—Geriatrics

Help wanted (Motion picture) Johnson & Johnson, 1942. Produced by Jam Handy Organization.

31 min., ed., b&w, 16 mm.
With instruction booklet.
Based on the Red Cross manual.
Summary: Demonstrates the basic principles of first aid and the general procedure in caring for the injured before the doctor arrives.
—Another issue b&w.

Ice rescue (Motion picture) Boy Scouts of America, 1945.

4 1/2 min., ed., b&w, 16 mm.
Summary: Techniques of ice rescue demonstrated.

Penetrating wounds of the abdomen (Motion picture) U. S. Dept. of the Navy, 1953. Made by Jam Handy Organization.

14 min., ed., color, 16 mm.
Order no. MN 7470.
Summary: Demonstrates five steps for handling penetrating wounds of the abdomen: make a speedy and accurate diagnosis, keep the patient on his back, apply a sterile dressing, treat for shock, and prepare for speedy evacuation.

Seconds count (Motion picture) Aetna Life Affiliated Companies, 1953.

8 min., ed., b&w, 16 mm.
With the booklet: A life in your hands.
Summary: A step-by-step demonstration of the application of the back-pressure arm-lift method for artificial respiration to victims of drowning, asphyxiation, and electrical shock. Includes instructions on changing operators, administering stimulants, and preventing shock.

Transportation of casualties (Motion picture) U. S. Dept. of the Army, 1951. Released for public educational use through U. S. Office of Education, 1951.

29 min., ed., b&w, 16 mm.
Order no. TF 8-1700.
Summary: Shows methods used in transporting wounded personnel from the combat area to medical installations for treatment.
—Another issue. 35 min.

MEDICINE—Geriatrics

Still going places: Active management of disability in the aged (Motion picture) Charles Pfizer and Company, Inc., 1955.

40 min., ed., b&w, 16 mm.

MEDICINE—Gynecology

MEDICINE—Gynecology

Cervicitis: etiology, diagnosis, and treatment (Motion picture) A. O. Hines Co. Made and released by Medical Film Guild; made 1944.

47 min., ed., color, 16 mm.

Summary: The history, significance, symptoms, etiology, pathogenesis, histology, bacteriology, diagnostic measures, and classification of cervicitis; discussion of chemical, caustic, and surgical therapy. For general practitioners.

Female pelvis (Motion picture) Billy Dark Productions, 1944.

16 min., ed., color, 16 mm. (Surgical Anatomy Series)

Summary: Relation of the adjacent organs to the uterus, ligaments, ovaries, location of round, broad, and suspensory ligaments. Course of ureter and inferior of bladder with ligaments. How to separate bladder and uterus as for hysterectomy. Uterine and ovarian arteries. Discussion on unstimulated ovaries shows natural color and condition of tissues involved.

The menopause: its significance and management (Motion picture) Sturgis-Grant Productions. Released by Schering Corp., 1933.

10 min., ed., color, 16 mm.

Summary: Features, by means of anatomical diagrams and anatomical drawings, the physiologic changes leading to the menopause, and depicts corrective them with the asymptomatic of the climacteric.

Primary dysmenorrhea (Motion picture) G. D. Searle and Co. Made by Mervin W. La Rue, 1948.

43 min., ed., color, 16 mm.

Summary: Presents the problems associated with the treatment of primary dysmenorrhea. Discusses ten drugs commonly used in this disorder and reviews laboratory and clinical studies of their efficacy. Reviews the various endocrine factors in uterine function, and shows various drug testing their efficacy on isolated uterine muscle strips as well as on the human subject, as measured by the intrauterine balloon technique.

Trichomonad and monilial vaginitis (Motion picture) G. D. Searle & Co., 1949. Made by Medical Film Guild.

11 min., ed., color, 16 mm.

Summary: Revised version of the 1947 motion picture Trichomonad and monilial vaginitis: pathology, diagnosis, treatment. **Summary:** Presents the problems of diagnosis and treatment of trichomonad and monilial vaginitis. Discusses symptoms, identification of the causative organisms, and the relationship between vaginal pH, the normal vaginal flora, the vaginal mucosa and its glycogen content.

The vaginal and cervical smear (Motion picture) Ortho Research Foundation, 1947.

27 min., ed., color, 16 mm.

Summary: An instructive film dealing with the normal and abnormal cell patterns in female genital smears, the technique of trichomonad and monilial vaginitis, and its application to the early detection of uterine cancer. For medical students, gynecologists, non-specialist postgraduate medical students, laboratory technicians.

Vaginal repair (Motion picture) Davis & Geck, Inc., 1940.

23 min., ed., color, 16 mm.

Order no. 329.

Summary: Demonstration of vaginal repair of cystocele and rectocele (Dr. Arthur H. Curtis).

MEDICINE—Hematology

The anemias (Motion picture) American Cyanamid Company, Loder Laboratories Division, 1943.

45 min., ed., color, 16 mm.

Summary: Causes of the anemias. Natural sources of iron, erythropoietin, maturing factor and therapeutic agents as "desferal". Acute hemorrhage, chronic hemorrhage, nutritional anemia, myelodysplasia, idiopathic macrocytic anemia, hemolytic jaundice, true pernicious anemia. Patients shown with characteristic symptoms; laboratory reports, stained smears, methods of treatment. Neurological findings in pernicious anemia.

Arterial blood pressure (Motion picture) W. A. Baum Co., 1950. Produced by Medical Film Guild.

27 min., ed., color, 16 mm.

Summary: Covers the structure, operation, and care of the sphygmomanometer and the physiology and pathology of human blood pressure. For medical students and student nurses.

Cardiac bodies and respiration (Motion picture) United States Department of Defense, Armed Forces Institute of Pathology, 1949.

19 min., ed., color, 16 mm.

Order No. PHF 5113.

Summary: Cardiac bodies and control of respiration; cardiac asthma in regulation of blood pressure.

Effects of heat and cold on the circulation of blood (Motion picture) Eliot R. Clark, 1933.

10 min., ed., b&w, 16 mm.

Summary: Cinematography of blood vessels in a rabbit's ear through a glass chamber, with circulatory acceleration in response to heating, and slowing in response to cold.

The first heart beats and the beginning of the circulation of blood in the embryo (Motion picture) Bradley M. Fatten and Theodore C. Kramer, 1950.

33 min., ed., b&w, 16 mm.

Summary: Revised version of the film originally produced in 1932. **Summary:** Presents classical cinematographic observations of the embryonic life of the 24-hour chick heart and blood vessels, with tracings of the heart and blood flow. Review of patients; clinical histories from hypertensive encephalopathy to acute pulmonary edema.

Hypertensive crises—Clinical management, Pharmacology, Physiology (Motion picture) Medical Film Guild, 1952.

43 min., ed., color, 16 mm.

Summary: Pharmacologic investigations depict anatomical assay method of evaluating therapy; experiments in clinical physiology measure cardiac output as well as hepatic, renal and peripheral blood flow. Review of patients; clinical histories from hypertensive encephalopathy to acute pulmonary edema.

Normal and abnormal white blood cells in tissue cultures (Motion picture) Warren H. Lewis, 1939.

Phase microscopy of normal living blood cells; Part I: Peripheral blood (Motion picture) University of Washington Film Center, 1953.

25 min., ed., b&w, 16 mm.

—Another issue. color.

Quantitative tests used in the diagnosis of arterial disease in the Peripheral Vascular Clinic of the Hospital of the University of Pennsylvania (Motion picture) Robinson Foundation, 1940. Produced by Norman E. Freeman, High Montgomery, and Meyer Sidel.

18 min., ed., color, 16 mm.

Summary: Documented cases dependent ruber, paler on elevation and reactivity hyperemia, methionine reaction, reflex hyperemia, and induced claudication in a patient with thromboangiitis obliterans.

The Rh factor and blood testing procedures (Motion picture) Ortho Research Foundation, 1954. Made by Ortho Film, 1949.

24 min., ed., color, 16 mm.

Summary: Explains accepted laboratory methods for blood grouping and its typing, including the detection of D⁺ blood, antibody detection, and antibody titration. For laboratory personnel and the medical profession.

White thrombo-embolism in the minute check pouch vessels of the hamster (Motion picture) Brenton R. Lutz, George P. Fulton, and George P. Akers, 1951.

17 min., ed., color, 16 mm.

Summary: Documented the formation of thrombi and emboli following trauma, bacterial infection, and transient neoplasia in the hamster cheek pouch blood vessels.

MEDICINE—Hospitals

Another light (Motion picture) U. S. Public Health Service, 1952. Made by Film Documents.

24 min., ed., b&w, 16 mm.

Summary: Tells the story of a small town and its new hospital, showing in particular the reactions of an elderly farmer, a housewife, and a businessman. Explains how the people of the town helped raise construction funds, how the hospital serves the people of the community, and how the people support the hospital.

—Another issue. 35 mm.

The bone bank (Motion picture) Sturgis-Grant Productions, Inc., 1950.

29 min., ed., color, 16 mm.

Summary: How a bone bank for refrigerated, homogeneous bone is organized and employed. Sites from which bone is obtained; method of storing in deep-freeze units. Typical orthopedic operations in which used. How body assimilation much bone, development of using refrigerated, homogeneous bone. (Dr. Philip D. Wilson)

Chain of asepsis (Motion picture) Armed Forces Institute of Pathology, 1945.

27 min., ed., b&w, 16 mm. (Care of Sick and Injured series)

Summary: Importance of sterile linen, preoperative preparation of patient, scrub technique, preparation of operating room and maintenance of chain of asepsis during operation.

MEDICINE—Hospitals

City of the sick (Motion picture) Ohio State Dept. of Public Welfare, Division of Mental Hygiene; made 1950. Released by National Association for Mental Health.

20 min., ed., b&w, 16 mm.

Summary: An illustrated lecture on the role of the psychiatric aide, or ward attendant, in a State hospital, together with a brief survey of various techniques used in the treatment of institutionalized patients. For psychiatric aides and sub-professionals employed in mental hospitals, and relatives of institutionalized mental patients.

First as a child (Motion picture) Virginia State Health Dept., in cooperation with the Children's Bureau, Federal Security Agency. Made by Southern Educational Film Production Service. Released by International Film Bureau, 1945.

22 min., ed., b&w, 16 mm.

Summary: Presents the case history of a crippled child from the infancy, demonstrating the operation of a community's crippled children's program and covering the functioning of the rehabilitation unit in management of the child as a person, as one handicapped, and as a specific disease problem.

Hospital food service personnel training. Part 1: Introduction (Motion picture) U. S. Dept. of the Army, 1949. Released for public educational use through the U. S. Office of Education.

18 min., ed., b&w, 16 mm.

Summary: Shows the department, equipment, menu planning, and food preparation procedures typical of hospital food service.

Hospital food service personnel training. Part 2: The individual (Motion picture) U. S. Dept. of the Army, 1949. Released for public educational use through U. S. Office of Education, 1951.

13 min., ed., b&w, 16 mm.

Summary: Ways to prevent communicable disease associated with improper food handling; health, cleanliness, personal appearance, and sanitary work habits.

Hospital food service personnel training. Part 3: Equipment (Motion picture) U. S. Dept. of the Army, 1949. Released for public educational use through U. S. Office of Education, 1951.

12 min., ed., b&w, 16 mm.

Summary: How to clean kitchen equipment; loosen, dissolve, and caustify dirt; rinse and dry equipment; and prevent food poisoning.

Hospital food service personnel training. Part 4: Serving food (Motion picture) U. S. Dept. of the Army, 1950. Released for public educational use through U. S. Office of Education, 1951.

15 min., ed., color, 16 mm.

Summary: Emphasizes principles of good food preparation and service in hospital—proper temperature, correct quantity, selection of food to meet patient's requirements, and courteous attitude by food service personnel.

MEDICINE—Hospitals

Hospital sanitation (*Motion picture*) U. S. Dept. of the Army, 1951.

14 min., ed., b&w, 16 mm.

Order no. TP 8-1793.
Summary: Describes ways and means to keep wards germ-free, and instructs precautions to take in cleaning contaminated bedding in an isolated ward.

— Another issue. 35 mm.

House of mercy (*Motion picture*) RKO-Pathé. Released by McGraw-Hill Book Co., 1950.

15 min., ed., b&w, 16 mm. (This is America)

Summary: Through his son's injury a citizen learns of the role played by the hospital in his community. Includes scenes of the operating room, ward, laboratory, and X-ray room.
Credits: Producer, Ray Brundage; director and photographer, Larry Orlitzky; written by Jerome Brundage; narrator, Dwight Weist; music supervisor, Herman Ficht; editor, David Cooper.

Man alive (*Motion picture*) American Cancer Society, 1952. Produced by United Productions of America.

10 min., ed., color, 16 mm.

Summary: An animated film about a man who suffers unnecessary mental anguish because he doubts having a physical examination.
Credits: Director, William T. Hurt; story, Bill Scott; William Hurt; animation, Cecil Surry, Paul Monroe, Rudy Larriva; music, Benjamin Lee; technician.

Pressure steam sterilization (*Motion picture*) American Sterilizer Company, 1953.

38 min., ed., color, 16 mm.

Summary: Theory of pressure steam sterilization; construction and operation of modern autoclave, both manual and automatically controlled types. Proper technique in sterilization by pressure steam. How to prepare utensils, rubber gloves, rubber tubing, surgical instruments, syringes and needles for pressure steam sterilization. How to load, vent, and unload.

Routine admission chest X-ray in general hospitals (*Motion picture*) U. S. Public Health Service with the cooperation of U. S. Office of Education, 1946. Made by Sun Dial Films.

22 min., ed., b&w, 16 mm.

Summary: Advocates the installation of photofluorographic equipment in the admission office of general hospitals; demonstrates the operation of such equipment and the maintenance of patient's records; and explains how this system locates otherwise undetected cases of tuberculosis.

MEDICINE—Hygiene

Be clean & healthy (*Motion picture*) Australian Instructional Films. Made by Ardenale Studios. Released in the U. S. by Library Films, 1952.

5 min., ed., b&w, 16 mm.

Summary: Contrasts healthy children at play with a sick child who can only look on, and points out that healthy children have more fun in life. Illustrates personal habits of cleanliness. Discusses care of food and rubbish, the importance of daily baths and fresh air and sun, and the control of insects and rodents. Includes microphotography of a fly's eye and germ.

Behind the smile (*Motion picture*) Social Science Films, 1953. Made by Harlestone Films.

11 min., ed., color, 16 mm.

Produced with the cooperation of the St. Louis Dental Society and the St. Louis County Health Dept.

With study guide.
Summary: Emphasizes the importance of periodic trips to the dentist for supervision and care, proper care of the teeth at home, and good nutrition as a contributing factor to good dental health.

The billion dollar malady (*Motion picture*) Dry Studios, 1952.

10 min., ed., b&w, 16 mm.

Summary: Explains that the common cold is the most highly infectious of all the communicable diseases. Emphasizes the economic importance in the loss of manpower and wages as the result of colds. Discusses the causes of colds, how to avoid them, and the importance of maintaining good health as a vital safeguard against colds.

Body care and grooming (*Motion picture*) McGraw-Hill Book Co., 1948.

17 min., ed., b&w, 16 mm.

Summary: Explains that the common cold is the most highly infectious of all the communicable diseases. Emphasizes the economic importance in the loss of manpower and wages as the result of colds. Discusses the causes of colds, how to avoid them, and the importance of maintaining good health as a vital safeguard against colds.

Care of the feet (*Motion picture*) Encyclopaedia Britannica Films, 1943.

11 min., ed., b&w, 16 mm.

Summary: Describes details of the structure of the foot and explains how this structure supports body weight in walking and standing. Calls attention to the chief causes of abnormal foot conditions and suggests treatment for these disorders. Emphasizes the role of X-ray in diagnosis and treatment. Stresses the need for proper foot hygiene including the importance of well-fitting shoes.

Care of the hair and nails (*Motion picture*) Encyclopaedia Britannica Films, 1951.

11 min., ed., b&w, 16 mm.

Summary: A fairy tale character uses magic to help children learn how to take care of their hair and nails. Shows them how to clean the scalp thoroughly, how to trim toenails, and how to shampoo and brush the hair. She tells them some common diseases of the hair, and through animated drawings, shows the structure of hair and nails and explains why their care is important.

Care of the skin (*Motion picture*) Encyclopaedia Britannica Films, 1949.

11 min., ed., b&w, 16 mm.

Summary: Demonstrates good habits of skin hygiene and illustrates common skin ailments. Portrays three children as they prepare for bed to show how to wash the hands and face and how to bathe. Through animated drawings describes the structure of the skin and explains why soap is necessary for cleanliness.

Cleanliness and health (*Motion picture*) Coronet, 1949.

11 min., ed., color, 16 mm.

With teacher's guide.
Summary: Emphasizes the importance of cleanliness in good health. Uses as an example a doctor's instructions to a youngster on cleanliness; compares photographically to show the tiny organisms that exist all around us. For primary and intermediate grades, Junior high school and adult groups.

— Another issue b&w.

Cleanliness brings health (*Motion picture*) U. S. Office of Inter-American Affairs, 1945. Produced by Walt Disney Productions. Re-released by U. S. Institute of Inter-American Affairs, 1946.

9 min., ed., color, 16 mm. (Health for the Americas series)

Summary: Shows how personal cleanliness, clean food, and safe disposal of excreta are first steps in protection against disease microbes in the home. Compares the habits of a "clean" family with those of a "dirty" family. Animated cartoon.

Confessions of a cold (*Motion picture*) Institutional Cinema Service, Inc., 1940.

10 min., ed., b&w, 16 mm.

Summary: Symptoms of common cold; effects of colds. How to combat: by rest, drinking fluids, proper ventilation of sick room, attention of a physician to relieve discomfort and guard against complications, proper disposal of discharges from mouth and nose, and sterilization of dishes used by sick person. Various ways in which colds may be spread: careless sneezing or coughing, kissing, and use of common drinking cup. Chilling and damp clothes to body temperature and before colds (during epidemics) to be avoided; dress should be appropriate for environment. Strict attention to personal cleanliness and proper diet, desirable.

— Another issue. 35 mm.

Danny's dental date (*Motion picture*) State of Colorado, Department of Public Health, 1949.

20 min., ed., color, 16 mm.

Summary: Puppets show types of teeth; various kinds of food recommended for dental health. Danny visits dentist's office where simple filling is done; process explained. Proper tooth brushing technique demonstrated with supervised tooth brush.

Eyes and their care (*Motion picture*) Erpi Classroom Films (later name Encyclopaedia Britannica Films) 1941.

11 min., ed., b&w, 16 mm.

Summary: Examines the eye in terms of structure, functions, diseases, and hygiene. Shows, with animated drawings, various parts of the eye and explains the physiology of sight. Illustrates such eye defects as nearsightedness, far-sightedness, and astigmatism, and describes their correction with glasses. Calls attention to eye infection, removal of foreign bodies, and damage by radiation. For high school, college, and adult groups.

Eyes bright (*Motion picture*) Avis Films, 1949.

10 min., ed., color, 16 mm.

Summary: French version released under the title *Conservez vos yeux sains*. With teacher's study guides.
Summary: Four children learn about care and protection of their eyes. For primary and elementary grades.

MEDICINE—Hygiene

Eyes for tomorrow (*Motion picture*) National Society for the Prevention of Blindness, 1943. Made by Emerson York Studio.

25 min., ed., b&w, 16 mm.

Summary: Discusses the relationship between eye health and general health, and the importance of personal examinations and personal care. Warns the care of the baby's eyes at birth; social implications of contagious diseases; industrial hazards and the importance of good lighting and safe working practices in eliminating dangers to the eye; value and significance of regular ophthalmologic examinations. Outlines symptoms, development, detection, and treatment of glaucoma; visual screening tests; importance of providing special education facilities for the partially sighted child.

Good grooming for girls (*Motion picture*) Coronet Instructional Films, 1950.

11 min., ed., color, 16 mm.

With study guide.
Summary: A high school girl spends a week-end with a well-groomed classmate who advises her on the selection and care of clothing, personal cleanliness, good posture, and the usefulness of make-up.

— Another issue b&w.

Good health practices, part 1 (*Motion picture*) Avis Films, 1953.

11 min., ed., color, 16 mm.

Summary: A ten-year-old girl and her six-year-old brother demonstrate good health practices in regard to eating, toilet, cleanliness, rest, and sleep. Points out that they enjoy everyday work and play as a result of their good health. For primary and intermediate grades.

Good health practices, part 2 (*Motion picture*) Avis Films, 1953.

11 min., ed., color, 16 mm.

Summary: A ten-year-old girl and her six-year-old brother demonstrate good health practices in regard to care of the teeth, eyes, ears, nose, and throat, and posture. For primary and intermediate grades.

Health: your posture (*Motion picture*) Centron Corp. Released by Young America Films, 1953.

11 min., ed., b&w, 16 mm.

Summary: Demonstrates what good posture is and stresses its importance to health and appearance. Explains why exercises, rest, and proper shoes are essential in building habits of good posture.

Hear, now! Hearing, and care of the ears (*Motion picture*) Avis Films, 1953.

10 min., ed., color, 16 mm.

Summary: A girl and boy visit their uncle, who is both the circus doctor and the circus clown. He uses clown's makeup and microphone in explaining about hearing and the care of the ears. For primary and intermediate grades.

MEDICINE—Hygiene

Home care in oral prophylaxis (Motion picture) Scientific Film Company, 1949.

21 min., sd., color, 16 mm.

Summary: How to take care of mouth and teeth; how to brush teeth; use of mechanical stimulants; choice of dentifrices and mouth preparations; diet.

— Another issue. silent.

How Billy keeps clean (Motion picture) Coronet, 1951.

11 min., sd., color, 16 mm.

With teacher's guide.
Summary: A young boy learns how to keep clean and why cleanliness is conducive to good health.

— Another issue b&w.

How to be well groomed (Motion picture) Coronet, 1948.

11 min., sd., color, 16 mm.

With teacher's guide.
Summary: Shows how personal appearance may be improved through good grooming habits. Through the example of two high school students explains the fundamentals of good appearance—good health, good posture, cleanliness, and neatness. For high school, college, and adult groups.

— Another issue b&w.

How to catch a cold (Motion picture) International Education Products Co., 1951. Made by Walt Disney Productions.

10 min., sd., color, 16 mm.

Summary: Shows how colds are spread; how a day or two in bed helps protect the entire community; and how a simple cold may actually be the first symptom of a far more serious illness.

Improving your posture (Motion picture) Coronet Instructional Films, 1949.

11 min., sd., color, 16 mm.

With teacher's guide.
Summary: Demonstrates several posture faults and suggests exercises to correct them. Shows how posture affects health, comfort, and appearance. Explains the skeletal and muscle structure.

— Another issue b&w.

Judy's smile (Motion picture) Avis Films, 1948.

9 min., sd., color, 16 mm. ("Pictures of good health" series)

Summary: Defines good posture and explains its importance, using a picture to illustrate various walking, sitting, and standing positions. For intermediate grades and junior high school.

— Another issue b&w.

Let's have fewer colds (Motion picture) Coronet, 1950.

11 min., sd., color, 16 mm.

With teacher's guide.
Summary: Explains that colds are communicable, and shows how they can be prevented through improved health habits. Emphasizes the importance of avoiding contact with people who have colds, avoiding chilling or overheating, and establishing good health. For primary and intermediate grades and adult groups.

— Another issue b&w.

The nose, throat, and ears (Motion picture) McGraw-Hill Book Co., 1945.

11 min., sd., b&w, 16 mm. (Health education series, no. 2)

Supplementary filmstrip of the same title also available.
Summary: Shows the structure and functions of the nose, throat, and ears. Illustrates how infections in these organs may spread and affect other parts of the body, and warns of the dangers of self-medication. Includes animated drawings. For college and adult groups.

Our teeth: their growth and structure (Motion picture) Knowledge Builders, 1941.

12 min., sd., b&w, 16 mm.

With teacher's study guide.
Summary: Describes the growth and structure of our teeth, with particular emphasis on their organic vitality. Discusses reasons for oral hygiene.

Personal health for girls (Motion picture) Coronet, 1952.

10 min., sd., color, 16 mm.

With study guide.
Summary: A high school girl demonstrates good habits of cleanliness, grooming, diet, exercise, and rest which result in an attractive appearance and a feeling of self-assurance.

— Another issue b&w.

Personal hygiene for boys (Motion picture) Coronet, 1952.

10 min., sd., color, 16 mm.

With study guide.
Summary: A popular high school boy demonstrates good habits of personal hygiene in bathing, shaving, and caring for his complexion, hair, and nails.

— Another issue b&w.

Posture habits (Motion picture) Coronet, 1947

11 min., sd., color, 16 mm.

With teacher's guide.
Summary: Defines good posture and explains its importance, using a picture to illustrate various walking, sitting, and standing positions. For intermediate grades and junior high school.

— Another issue b&w.

Posture pals (Motion picture) Avis Films, 1952.

10 min., sd., color, 16 mm. ("Pictures of good health" series)

With teacher's study guide.
Summary: Four elementary school children improve their poor posture habits with help from the teacher and from one another. For primary and lower elementary grades.

Rest and health (Motion picture) Coronet Instructional Films, 1949.

11 min., sd., color, 16 mm.

With teacher's guide.
Summary: Emphasizes the importance of enough rest and sleep for good health. Examines the effect of lack of sleep on a high school student who is overactive in school events until the physical education teacher intervenes.

— Another issue b&w.

Road to health & happiness (Motion picture) Knowledge Builders, 1953.

11 min., sd., b&w, 16 mm.

With guide.
Summary: Discusses diet, rest, safety-first, school examination, immunization and the tuberculosis test, correction of defective teeth and irregular teeth and medical and dental examinations; shows an effective way to care for the mouth, teeth, and body; points out the role of the school nurse.

Save these teeth (Motion picture) Encyclopedia Britannica Films, 1949.

11 min., sd., b&w, 16 mm. (Health and hygiene)

With teacher's guide.
Summary: Emphasizes the importance of proper cleaning in the care of teeth, and illustrates how the teeth are affected by excessive use of toothbrushing. Identifies the kinds of bacteria that change sugar to acid in the mouth. Demonstrates the use of sodium fluoride solution in the prevention of tooth decay and prescribes specific rules to be followed in the care of the teeth. For middle grades and adult groups.

See better: Healthy eyes (Motion picture) Coronet, 1950.

11 min., sd., color, 16 mm.

With teacher's guide.
Summary: Answers the "how and why" of eye care. Explains the general structure of the eye, important health and safety practices relating to eye care, and common ways to treat disorders of vision. For primary and intermediate grades and parent groups.

— Another issue b&w.

Sleep for health (Motion picture) Encyclopedia Britannica Films, 1950.

11 min., sd., color, 16 mm. (Health and hygiene)

With teacher's guide.
Summary: Presents the importance of regular sleeping habits from the viewpoint of a child. Shows the child how a regular bedtime which allows for sufficient sleep helps him attain goals which he himself desires. Emphasizes the child's own responsibility to the formation of good habits. Explains dreaming as a normal part of sleeping. Illustrates how lack of sleep causes irritability and interferes with the enjoyment of everyday living.

MEDICINE—Hygiene

Soapy, the germ fighter (Motion picture) Avis Films, 1951.

10 min., sd., color, 16 mm. (Pictures of good health series)

With teacher's study guide.
Summary: A fifth grade boy learns about basic cleanliness and sanitation from "Soapy," an animated character of soap. For primary and elementary grades.

Teeth: Development and care (Motion picture) Encyclopedia Britannica Films, 1945.

11 min., sd., b&w, 16 mm.

With teacher's guide.
Summary: Explains development and structure of teeth and stresses importance of proper care. Illustrates the growth cycle of teeth from embryonic stage through adulthood. Demonstrates the cause of decay and how it can be prevented by eating proper foods, brushing the teeth regularly and properly, and consulting a dentist frequently. Calls attention to organized community programs for dental care. For high school, nurse training, and adult groups.

Tommy's day (Motion picture) Young America Films, 1946.

12 min., sd., b&w, 16 mm.

With teacher's guide.
Summary: Pictures a typical day in the life of a seven-year-old, showing activities at home with his parents and little sister, and in the classroom. Recommends practices of personal cleanliness, dental care, diet, and family relationships. For primary grades.

Understanding vitamins (Motion picture) Encyclopedia Britannica Films, 1952.

14 min., sd., color, 16 mm.

Summary: Describes the scientific research which has been conducted in determining the role of vitamins; explains what vitamins are, how they work, and why they are necessary for good health; describes the natural sources of vitamins; and explains how vitamins deficiency in the diet can be supplemented by the use of synthetic vitamins.

Why Billie was willing to wash (Motion picture) Institutional Cinema Service, Inc., 1944.

10 min., sd., b&w, 16 mm. (Health Series)

Summary: Dirty little boy learns in dream why personal cleanliness is important to maintain self-respect, extend social relationships, guard against disease. What dirt does to clog pores and assist in transmission of disease germs. Value of soap and water.

— Another issue. 35 mm.

Your body speaks (Motion picture) Center for Mass Communication, 1953. Made by Teachers College, Columbia University.

12 min., sd., b&w, 16 mm.

Summary: Discusses body features which make for good and bad posture. Shows how state of mind, personality, and general health are indicated by the way one sits and walks.

Your cleanliness (Motion picture) Centron Corp. Released by Young America Films, 1953.

1 rev. sd., b&w, 16 mm. (Health series)

With teacher's guide.
Summary: Explains the importance of cleanliness in caring for skin, teeth, hair, nails, and clothing.

MEDICINE—Hygiene

Your own teeth (*Motion picture*) University of Minnesota, 1949.

14 min., ed., color, 16 mm.
Summary: Unhealthy teeth; how decay starts and can be prevented; essentials of good tooth-brush; how to brush teeth.

MEDICINE—Immunology

Allergy—Immunology and treatment (*Motion picture*)
Nopora Chemical Co., Inc., 1948.

48 min., ed., color, 16 mm.
Summary: Immunology and mechanism of allergy; role played by histamine; protective action of anti-histamine drugs. Treatment of hay fever, allergic rhinitis, bronchial asthma, eczema and contact dermatitis, urticaria and angio-neurotic edema, rhesus, physical and gastrointestinal allergy (Dr. Leo H. Crispe).

Defense against invasion (*Motion picture*) U. S. Coordinator of Inter-American Affairs, 1943. Produced by Walt Disney Productions. Re-released by U. S. Institute of Inter-American Affairs, 1946. **USA**

13 min., ed., color, 16 mm.
Summary: Explains how vaccination makes the body immune to certain diseases. Animated cartoon.

Immunization (*Motion picture*) Encyclopedia Britannica Films, 1952.

11 min., ed., color, 16 mm.
Reel edition.
With film guide.
Summary: Dramatized incidents and animated sequences are used in explaining what immunity is and how immunity to infectious disease is achieved. Describes the action of vaccines and shows how vaccines for smallpox, pneumonia, and diphtheria are prepared and administered.

Immunization against infectious diseases (*Motion picture*) American Cyanamid Co., Lederle Division; made 1943.

40 min., ed., color, 16 mm.
Revision of the 1942 film of the same title.
Summary: As this lecture film shows patients with diphtheria, scarlet fever, tetanus, pertussis, measles, streptococcal, spotted fever, typhus, typhoid, and malaria. Outlines both passive and active immunization procedures. For nurses, medical students, and public health students.

The magic touch: Immunization (*Motion picture*) Avis Films, 1953.

10 min., ed., color, 16 mm. (Pictures of good health series)
English commercial color.
With teacher's guide.
Summary: Three 8th-grade children learn about immunization from their school nurse. Emphasizes that the mild discomfort of this "magic touch" is inconsequential compared to the advantages of this magic touch. For primary and intermediate grades.

Smallpox and vaccination (*Motion picture*) New York State Dept. of Health, 1952.

25 min., ed., color, 16 mm.
Summary: Shows the appearance and distribution of smallpox lesions, with special reference to the mild and atypical cases seen in the United States, and demonstrates differential diagnosis from the DCA (Disease Control Administration) vaccine intradermally and by the multiple puncture method.

Technique of BCG vaccination (*Motion picture*) U. S. Public Health Service, 1951.

40 min., ed., color, 16 mm.
Order no. 3134.
Summary: Shows how to set up a BCG clinic; administer the tuberculin test; read and interpret tuberculin tests; and administer the BCG (Bacillus Calmette Guérin) vaccine intradermally and by the multiple puncture method.

The typhoid carrier (*Motion picture*) U. S. Institute of Inter-American Affairs, 1947. Produced by Apex Film Corp.

9 min., ed., color, 16 mm.
Summary: Explains how the typhoid bacillus may be transmitted to milk and water, and by flies and human carriers. Demonstrates how a cook may be unknowingly a carrier of typhoid.

Vaccinate against smallpox (*Motion picture*) U. S. Institute of Inter-American Affairs, 1947. Produced by Apex Film Corp.

8 min., ed., color, 16 mm.
Summary: Explains the necessity for vaccination against smallpox; demonstrates the multiple puncture technique; and shows how smallpox disappears from communities where all people are vaccinated.

MEDICINE—Industrial Medicine

Doctor in industry (*Motion picture*) General Motors Corp., 1946. Made by Jam Handy Organization.

60 min., ed., color, 16 mm.
Summary: Traces the development of industrial medicine in the past century from a factory doctor from 1800 to 1936. Portrays his struggles to establish preventive medicine in industry, fight pollution, and cooperate with manufacturers to bring health and safety to employees.

Occupational health problems (*Motion picture*) Medical Film Guild, 1953 rev.

42 min., ed., color, 16 mm.
Summary: Industrial physician's problems from pre-employment examination to prevention of occupational hazards in atomic energy plants. Industrial dermatoses, lead contamination, tuberculosis surveys, common cold in industry, traumatic cases, burns. Basic principles of rehabilitation of injured. Radiation control and protective measures in handling contaminated material in atomic energy plants.

MEDICINE—Internal medicine

Clinical use of hyaluronidase (*Motion picture*) Wyeth, 1951. Produced by Worcester Film Corp.

35 min., ed., color, 16 mm.
With illustrated booklet. Clinical use of hyaluronidase, reproducing the narrated text of the film. French and Spanish versions also available.
Summary: Reports principles and clinical applications of a new enzyme for enhancing the diffusion of fluids through tissues.

Experimental thiamin deficiency (*Motion picture*) U. S. Dept. of the Army, 1950.

7 min., ed., color, 16 mm.
Order no. FAF 5182.
Summary: Presents a laboratory demonstration of polyneuritis. Shows the symptoms and signs of thiamin B-1 deficiency. Shows the recovery effected by use of intraperitoneal thiamin. Explains the mechanism of polyneuritis and the role of thiamin. For medical personnel.

The manual preparation of tablet triturates (*Motion picture*) American Association of Colleges of Pharmacy, 1951.

17 min., ed., color, 16 mm.
Summary: Tablet triturates defined; method of administration described. Different types shown. Materials and equipment necessary for preparation. Selection of proper mold and color equipment; determination of weight of total capacity of mold to be used; and of correct amount of diluent and medication necessary. Significance and importance of these steps. Touches on weighing ingredients, of triturating (method of geometric dilution), moistening with proper amount of excipient, filling mold, ejecting tablets.

Mental defects—glandular types—Mongolian and Cretin (*Motion picture*) Rutgers University. Released by State University of Iowa.

20 min., ed., color, 16 mm.
Summary: Individual studies of lower grade mental defects of mongolian and cretin types; low level of intelligence may accompany strong physical development.

Problems of rheumatoid arthritis (*Motion picture*) Arthritis and Rheumatism Foundation, 1950.

28 min., ed., color, 16 mm.
Summary: Incidence of arthritis; economic and social significance. Pathology, clinical manifestations, treatment of rheumatoid arthritis. Arthritis therapy: cortisone, corticosteroids (ACTH), hormone therapy.

Proxystil hydrochloride (*Motion picture*) E. R. Squibb & Sons, 1950. Made by Foriel Films.

6 min., ed., color, 16 mm.
Summary: States the indications for proxystil hydrochloride in cardiac arrhythmias, and demonstrates effects of the drug in an exposed dog's heart and in electrocardiograms of patients. For general practitioners.

MEDICINE—Laboratory Procedures

Rx, the story behind your doctor's prescription (*Motion picture*) E. R. Squibb & Sons; made 1947. Released by Ideal Pictures.

15 min., ed., color, 16 mm.
Summary: Surveys the ways in which the resources of chemical and biological science contribute to medical service through modern manufacturing methods. Emphasizes the importance of tested in treating standards, and points out the value of a brand name. Covers various products such as elixir, preventive vaccines, insulin, and antibiotics.

The treatment of varicose veins (*Motion picture*) G. D. Scott and Co. Made by J. L. Fischbacher, 1942.

31 min., ed., color, 16 mm.
Summary: Presents types and treatment of varicose veins of the lower extremities. Discusses the venous anatomy of the leg, various types of varicose veins, and treatments including ligation, scleroto, and their combination, as well as tests for competency of the collateral circulation.

The use of digitalis in heart failure (*Motion picture*) Wyeth, 1947. Produced by Transfilm.

24 min., ed., color, 16 mm.
With illustrated booklet, reproducing the narration.
Summary: Shows how digitalis and its glycosides act directly on the heart, explains how to choose among various preparations of the drug, and illustrates methods of administering. For members of the medical profession.

Viral hepatitis (*Motion picture*) U. S. Dept. of the Army, 1953.

21 min., ed., color, 16 mm.
Order no. PG 8-4.
Summary: Defines viral hepatitis, gives physical findings and shows how the physical examination is confirmed by laboratory diagnosis. Illustrates treatment, and causes for relapse. Discusses differential diagnosis of hepatitis, with and without jaundice. Explains the mode of transmission.

— Another issue. 35 min.

Vitamins and some deficiency diseases (*Motion picture*) Lederle Laboratories Division, American Cyanamid Co., 1955. Made by Alfred P. Lane, Inc.

30 min., ed., color, 16 mm.
Revised version of the 1952 motion picture.
Summary: Discusses vitamins and their relationship to deficiency diseases. Through laboratory scenes illustrates deficiencies in experimental animals. Deficiency diseases include pellagra, scurvy, pernicious anemia, and vitamin K deficiency. Shows early ocular risks, pellagra, and vitamin K deficiency. Shows early ocular risks of vitamin A and riboflavin deficiencies as seen through the changes of vitamin A and riboflavin deficiencies from pyridoxine and pantoic acid deficiencies. For medical and allied groups.

MEDICINE—Laboratory Procedures

Allergies (*Motion picture*) Encyclopedia Britannica Films, 1952.

12 min., ed., color, 16 mm.
Summary: Presents basic facts about the nature, symptoms, and treatment of allergies. Describes the types of scientific research which are being conducted, and explains the tests which are used in detecting allergies.

— Another issue. 35 min.

MEDICINE—Neurology

Disorders of the extra-pyramidal system and the posterior columns (Motion picture) U. S. Public Health Service, 1938.

20 min., ed., b&w, 16 mm. (Introduction to clinical neurology, no. 2)
Summary: Presents cases of Parkinsonism, chronic epidemic encephalitis, Huntington's chorea, Sydenham's chorea, congenital ataxia, choreoathetosis, strychnine rigidity, toxic ataxia, and tabes dorsalis. For medical personnel.

Disorders of the motor trigeminal, spinal accessory, and hypoglossal nerve (cranial nerves) (Motion picture) Ernst Herz and Tracy J. Putnam. Released by Center for Mass Communication, 1945.

27 min., ed., at. ed. speed, b&w, 16 mm. (Motor disorders in nervous diseases)
Summary: Through animation illustrates the muscles of mastication and their nerve supply, and shows a clinical demonstration of the symptoms of unilateral paralysis of the masticatory nerve. Through animation and demonstration shows the anatomy and disorders of the spinal accessory nerve, and the anatomy and disorders of the hypoglossal nerve.

Disorders of the vestibular system (Motion picture) Ernst Herz and Tracy J. Putnam. Released by Center for Mass Communication, 1945.

23 min., ed., at. ed. speed, b&w, 16 mm. (Motor disorders in nervous diseases)
Summary: Through animation pictures of the labyrinth, the vestibular nerve and nuclei, and the efference connections, shows the anatomy of the vestibular system. Demonstrates methods of examination. Shows various forms of nystagmus, investigation and disorders of the vestibular system. Shows various tests, such as the demonstration of the vestibular test and galvanic test as applied to two vestibular disorders: Apoplexy of one labyrinth and hyperexcitability of one labyrinth.

An electrodiagnostic procedure (Motion picture) U. S. Dept. of the Army, 1947.

10 min., ed., color, 16 mm.
Order no. PMP 5505.
Summary: Demonstrates the use of the Goldthorpe constant current stimulator as one method of determining the neurological state of muscle in peripheral nerve injuries and other neuropathologies. For medical personnel.

Facial palsy (Motion picture) Ernst Herz and Tracy J. Putnam. Released by Center for Mass Communication, 1945.

20 min., ed., at. ed. speed, b&w, 16 mm. (Motor disorders in nervous diseases)
Summary: Through animation and in specimen, shows the anatomy of the facial nerve and the course of the upper and lower motor neurons. Shows the results of lesions in characteristic sites, the treatment of facial palsy, the differentiation of spasms occurring during regeneration of facial palsy, and the vestibular of other etiology.

General neurological examination and clinical signs of disorders of the pyramidal system (Motion picture) U. S. Public Health Service, 1938.

10 min., ed., b&w, 16 mm. (Introduction to clinical neurology, no. 1)
Summary: Reviews gross anatomy of the brain, demonstrates animal neurological examination of cranial nerves, motor coordination, reflexes, and sensation; presents clinical signs of disorders of the pyramidal system; shows two cases of hemiplegia with lateral hydrocephalus, presenting x-rays to show the seat of impairment. For medical personnel.

Hereditary ataxia (Motion picture) U. S. Dept. of the Army, 1940.

31 min., ed., color, 16 mm.
Order no. PMP 5145.
Summary: Explains hereditary and clinical characteristics of hereditary ataxia, including early symptoms, later indications and signs of advanced stages. Discusses diagnostic procedures. For medical personnel.

Integrative aspects of the nervous system. Part 2: The motor system (Motion picture) U. S. Dept. of the Army, 1951.

47 min., ed., color, 16 mm.
Order no. PMP 5182-4.
Summary: Features the means by which the nervous system is believed to make use of "feed back" and "scanning" mechanism in nerve impulses.

Introduction to aphasia (Motion picture) U. S. Veterans Administration, 1950. Made by Churchill-Wexler Film Productions.

30 min., ed., color, 16 mm. (Aphasia, no. 1)
Summary: Defines and describes aphasia; discusses receptive and expressive language functions; and differentiates various types of aphasia such as apraxia, agnosia, and paraphasia. Primarily animation. For medical personnel.

Method of repair of posterior tibial nerve (Motion picture) U. S. Dept. of the Army, 1940.

10 min., ed., color, 16 mm.
Order no. PMP 5182.
Summary: Shows how to repair long defects in the peripheral nerve by bridging a large gap in the tibial nerve through wide dissection and fixation of the knee joint. For medical personnel.

Oculomotor disorders (Motion picture) Ernst Herz and Tracy J. Putnam. Released by Center for Mass Communication, 1945.

27 min., ed., at. ed. speed, b&w, 16 mm. (Motor disorders in nervous diseases)
Summary: Through animation, examines the functional anatomy of the muscles of the eye and their innervation. Demonstrates oculomotor disorders in clinical ophthalmology such as paralysis of the eye muscles, nystagmus of nerves, unilateral and bilateral ophthalmoplegia, and gaze paralysis.

Peripheral nerve injuries (Motion picture) U. S. Department of Defense. Armed Forces Institute of Pathology, 1947.

17 min., ed., b&w, 16 mm. (Therapeutic Exercise Series)
Order no. PMP 5053.
Summary: Physical examination and testing by means of electrodiagnosis to determine extent of injury to peripheral nerve. Treatment by specific remedial exercises to encourage use of injured nerves. Progress in range of motion checked by strength function graphs. Various types of deformities caused by improper exercising of injured parts illustrated: drop wrist, claw hand and foot drop.

Reflexes (Motion picture) Ernst Herz and Tracy J. Putnam. Released by Columbia University Educational Films, 1946.

25 min., ed., b&w, 16 mm. (Motor disorders in nervous diseases, no. 5)
Summary: Reviews the neurophysiology of the peripheral reflexes and the techniques for eliciting them during routine neurological examination. Illustrates the phenomena of hyperreflexia with mass reflex, and the Babinski, Chaddock, Oppenheim, Schaefer, Hoffmann, Hirschfeld-Reichow, and Hoffman signs. Shows reflex alterations in tuberculous meningitis, muscular dystrophy, and cerebellum. For medical students.

Rehabilitation for Parkinson's syndrome (Motion picture) Medical Film Guild, Ltd., 1945.

54 min., ed., color, 16 mm.
Summary: Clinical signs of brain disorders: masked facies, apathy, tremor, conditions in alcohols. Anatomical structures and synaptic physiology. Contributions in the field by Horsley, Meyers, Bogy, and Putnam evaluated in comparison to modern concept of Klemm, who extensively analyzes 200 surgical cases.

Skilled acts (Motion picture) Ernst Herz and Tracy J. Putnam. Released by Columbia University Educational Films, 1946.

25 min., ed., b&w, 16 mm. (Motor disorders in nervous diseases, no. 6)
Summary: Illustrates motor impairments in multiple sclerosis and Duchenne's disease. Differentiates and demonstrates three types of apraxia. For medical students.

Therapy influencing the autonomic nervous system (Motion picture) G. D. Searle & Co., 1952. Made by Jam Handy Organization.

10 min., ed., color, 16 mm.
Summary: Reviews the anatomy and physiology of the autonomic nervous system and the essential pharmacology of representative drugs which act on this system. For students of medicine and pharmacology, and general practitioners.

Treatment of the major neuralgias (Motion picture) Singer Sewing Machine Co. Made and released by Medical Film Guild, 1945.

52 min., ed., color, 16 mm.
Summary: Discusses the causes, diagnosis, and treatment of trigeminal, ophthalmic, and ophthalmic neuralgias. Includes the anatomy of the several nerves in their pathways, and therapy by alcohol injection and selective nerve section. For general practitioners.

Trigeminal neuralgia (Motion picture) Robert Dunn Woolsey, 1950.

23 min., ed., color, 16 mm.
Summary: Presents the preoperative case history of a patient; through diagrams demonstrates the selective section of the 5th cranial nerve in a case, and demonstrates postoperative results in three sensory levels. For general practitioners and medical students.

Use of whole blood, blood plasma, and concentrated serum albumin with special reference to shock (Motion picture) U. S. Dept. of the Navy, 1951. Made by Film Graphics.

25 min., ed., color, 16 mm.
Order no. MN 5285.
Summary: Illustrates characteristics of shock and shock physiology. Schematic reveals protein information of blood components used to regular shock, and background information of blood and structure of the circulatory system.

MEDICINE—Nursing

MEDICINE—Nursing

Bathing the patient: home care (Motion picture) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Ted Nemeth Studio.

24 min., ed., b&w, 16 mm. (Nursing series)
Order no. OE 402.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Procedures for bathing a patient in the home; equipment and supplies; methods of bathing—including draping, soaping, rinsing, and drying of each body part; technique of oral hygiene, massaging, and shaving.

Before the baby comes (Motion picture) Knowledge Builders, 1938.

12 min., ed., b&w, 16 mm.
With guide.
Summary: A detailed study of correct practices for the expectant mother. Shows the mother's first trip to the doctor and explains the value of an early prenatal examination. Discusses correct diet, fetal care, foods to be eaten, abortion, bathing, and other practices for good health during the period of pregnancy.

Care of the cardiac patient (Motion picture) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.

25 min., ed., b&w, 16 mm. (Nursing series)
Order no. OE 410.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Nursing care given a cardiac patient, including comfort, rest, diet, feeding, elimination, cleanliness, and directional and occupational therapy.

Care of the patient with diabetes mellitus: complicated (Motion picture) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.

25 min., ed., b&w, 16 mm. (Nursing series)
Order no. OE 418.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Nurse's role in the diagnosis and treatment of coma and insulin shock, and the role of the nurse, doctor, dietitian, and psychologist in assisting the patient to develop a healthy mental attitude toward his condition.

Care of the patient with diabetes mellitus: uncomplicated (Motion picture) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.

20 min., ed., b&w, 16 mm. (Nursing series)
Order no. OE 417.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Symptoms of diabetes; how the nurse teaches the patient to administer insulin injections, regulate diet, and make the Benedict test for sugar in the urine.

Care of the sick and injured (Motion picture) United States Department of the Navy, 1944-5.

106 min., ed., b&w, 16 mm.
Order no. MN 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 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2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 27

MEDICINE—Nursing

46 min., ad. hdy, 10 mm. (Nursing series)
Analysis: Problematic: acute polycytophilia with tightness in usual areas of neck, back, and leg extensor; also at other muscle sites. Girdle and functional deformities result from contractures of muscles. Onset of weakness and rigidity after 7 days of treatment over period of weeks to twenty-four hours.
Another issue. bdy.

Radiotherapy: high dosage treatment (*Action picture*)
 U.S. Office of Education with the cooperation of U.S. Public Health Service, 1945. Produced by Willard Ficks
 12 min., ad. hdy, 10 mm. (Nursing series)
 Order no. DC 41.
Summary: Instructor's manual. Supplemental filmstrip of same title also available.
Discussion: Nature and physiological effects of high dosage X-rays; administration of X-ray treatment for carcinoma of the tongue; patient care during irradiation; acute factors in care of patients receiving X-ray therapy
 18 min., ad. hdy, 35 mm.

MEDICINE—Nursing

Hepati on the living (Motion picture) U. S. Public Health Service, 1951. Produced by Documentary Co.

25 min., ed., b&w, 10 mm.

Summary: Documentary story of the recovery of Richard Wood, 18, from fulminant liver disease following his treatment with ACTH, the adrenocorticotrophic hormone compound.

Safe tuberculous nursing (Motion picture) U. S. Veterans Administration, 1950. Made by U. S. Dept. of Agriculture.

21 min., ed., b&w, 10 mm.

Summary: Emphasizes the importance of asepsis in the nursing care of tuberculous patients and shows preventive measures to be used by nurses and hospital personnel.

She also serves (Motion picture) Institutional Cinema Service, Inc., 1950.

22 min., ed., b&w, 16 mm. (Health series)

Summary: Work of public health nurse; her education and training. Shows an community nurse, cooperation with research scientists, social workers, hospital, health center physicians, etc. Illustrations of work in detection and treatment of disease, how she keeps abreast of medical and surgical developments. The place and importance in community.

T. R. Nurse Wallace (Motion picture) Bureau of Tuberculosis Control, Dept. of Health, Commonwealth of Pennsylvania, 1950. Produced by the Motion Picture and Recording Studio, Pennsylvania State College.

20 min., ed., color, 16 mm.

Summary: Follows the story of a newly graduated nurse who oversees the initial trial, who she discovers how much she can contribute to the improvement of her patients.

Reel film.

This way to nursing (Motion picture) Emerson Yorks Studio, Released by Young America Film, 1950.

20 min., ed., b&w, 16 mm.

With teacher's guide. Summary: Shows the training of a student nurse, and urges young women to enter the profession.

Time out: Occupational therapy in tuberculosis (Motion picture) U. S. Dept. of the Army, 1949.

20 min., ed., b&w, 16 mm.

Summary: Shows the role of hospital personnel in the physical, mental, and social rehabilitation of patients with tuberculosis. —Another issue. 35 min.

Treatment of mental disorders (Motion picture) James D. Pugs, 1950. Released by Psychological Cinema Institute, Pennsylvania State University.

20 min., ed., b&w, 16 mm.

Summary: Shows interviews at the time mental patients are admitted to a hospital, some procedures of physical examination upon entrance, methods of forced feeding with patients who refuse to eat, "talking" or "continuous hall" for agitated patients, use of barbiturates for sleep therapy, use of sedatives and sleeping pills, and treatment therapy on schizophrenics and other types of mental patients, and recreational management in forced therapy occupational therapy, and recreational management in psychiatric hospitals. For patient profession and allied groups.

Use of Russell traction in fractures of the femur (Motion picture) New York Medical College, 1941.

20 min., ed., b&w, 10 mm.

Summary: Mechanisms of muscle contraction; overriding correct application, proper mechanics, use of Russell traction. Prequalifies for proper use of Russell traction; various illustrating various types of fractures of femur before and after use of Russell traction (Dr. Milton J. Hillman).

The vital signs and their interrelation: body temperature, pulse, respiration, blood pressure (Motion picture) U. S. Public Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.

32 min., ed., b&w, 16 mm. (Nursing series)

With instructor's manual. Supplementary summary of same title also available. Summary: Physiology of the respiratory, heart, regulatory, and circulatory systems and their interrelationships; how to accurately and correctly measure the vital signs—temperature, pulse, respiration, and blood pressure.

Ward care of pneumonia patients (Motion picture) U. S. Dept. of the Army, 1950.

22 min., ed., b&w, 16 mm.

Order no. TP 8-1050. Summary: Discusses the care of the pneumonia patient by nurses and medical orderlies; emphasizes the mechanics and operation of the oxygen tent; calls attention to the rules of positive health. —Another issue. 35 min.

Ward care of psychotic patients (Motion picture) U. S. War Dept., 1945.

44 min., ed., b&w, 16 mm.

Order no. TP 8-2000. Summary: Discusses the duties of ward attendants and methods of caring for psychotic patients in closed wards. —Another issue. 35 min.

We see them through (Motion picture) Virginia State Health Dept. in cooperation with the Children's Bureau, Federal Security Agency. Made by Southern Educational Film Production Service. Released by International Film Bureau, 1948.

20 min., ed., b&w, 16 mm.

Summary: Follows a case of rheumatic fever in a child to show the treatment and complex process of management of the disease; explains that parents, doctors, nurses, laboratory workers, social workers, and teachers each play a role; and demonstrates the coordinated services offered on one state.

When you choose nursing (Motion picture) Lederle Laboratories in cooperation with the Mary Hitchcock Memorial Hospital, Hanover, N. H. Made by Willard Pictures. Released by Committee on Careers, National League for Nursing, 1954.

20 min., ed., b&w, 16 mm.

Summary: Illustrates, through personal life stories, the work and recreation opportunities of nurses in the fields of pediatric, nursing education, industry, and public health. Emphasizes the various opportunities in nursing at home and abroad, the possibility of combining marriage and a nursing career, and a rich life of service. For nurse recruitment.

Your public health nurse (Motion picture) New York State Department of Health, 1940.

10 min., ed., b&w, 16 mm.

Summary: Rural public health nursing in New York State; nurse's activities in family and community health services, under routine and emergency situations. —Another issue. 35 min.

MEDICINE—Obstetrics

All my babies, a midwife's own story (Motion picture) Medical Audio-Visual Institute of the Association of American Medical Colleges under the auspices of the Georgia Dept. of Public Health. Released by the Center for Mass Communication of Columbia University Press, 1953.

55 min., ed., b&w, 16 mm.

Summary: A training film for midwives. Shows in detail a complete delivery and demonstrates the approved procedures to be used by the midwife before, during, and after delivery. Follows a midwife in her work with various cases under both favorable and unfavorable circumstances. For professional audience.

Cesarean section: Classical (Motion picture) U. S. Dept. of the Army, 1952.

10 min., ed., color, 16 mm.

Order no. 1007205. Summary: Shows surgical procedures for classical cesarean section, with anatomical landmarks indicated throughout the operation.

Cesarean section—Norton paravascular extraperitoneal technique with a case history (Motion picture) Milton L. McCall, 1918.

15 min., ed., ed. speed, color, 10 mm.

Summary: Demonstrates in a case the Norton procedure for cesarean section with dissection of the paravascular fascia and exposure of the lower uterine segment for section. For surgeons and obstetricians.

A concept of maternal and neonatal care (Motion picture) George Washington University School of Medicine with the Medical Film Institute of the Association of American Medical Colleges, 1951.

20 min., ed., b&w, 16 mm.

Summary: A report to the medical profession based on experience at the George Washington University Hospital. Shows the advantages of a continuity of care in maternity cases beginning with the first prenatal visit.

Continuous spinal analgesia in cesarean section (Motion picture) Abbott Laboratories, 1945. Made by Merrin W. La Rue, Inc.

42 min., ed., color, 16 mm.

Summary: In a good risk case of cesarean section. Illustrates a technique of continuous spinal analgesia by use of small divided doses of anesthetic. In animal experiments, contrasts the effects of continuous spinal analgesia with the single injection technique. For obstetricians.

Delivery of quadruplets (Motion picture) Davis & Geck, 1948.

20 min., ed., color, 16 mm.

Summary: Shows the delivery of quadruplets by cesarean section under continuous spinal analgesia. Presents a brief history and the prenatal course of the patient. X-ray confirmation of the diagnosis. Shows the development of the four babies from birth to two years of age, with seven tables at periodic intervals during that time. Discusses the indication for cesarean section. For professional groups only.

Early human fetal activity (Motion picture) Ladd Laboratory of the Dept. of Anatomy, School of Medicine, University of Pittsburgh, 1952.

9 min., ed., b&w, 16 mm.

Summary: Photographs of characteristic reactive behavior episodes from six human fetuses of 36, 38, 39, 40, and 41 weeks of gestational age. Designed for genetic psychologists, embryologists, psychiatrists, pediatricians, biologists, medical students, and social workers.

Extraperitoneal cesarean section (Motion picture) John C. Irwin. Made and released by Billy Burke Productions, 1940.

10 min., ed., ed. speed, color, 16 mm.

Summary: Shows how the blunt dissection of the bladder, from the uterus and the suspended peritoneum, creates only minimal of the facts and approximation of skin for closure of the abdominal wall. For medical profession.

Extraperitoneal cesarean section: a simplified paravascular technique (Motion picture) Abraham R. Abartand. Made and released by Motion Picture Division, Dept. of Theater Arts, University of California, Los Angeles; made 1951.

17 min., ed., color, 16 mm.

Summary: Demonstrates a procedure for extraperitoneal approach in cesarean section, with broad downward incision, evidence of bladder trauma, and modified incision into the uterus. For surgeons and obstetricians.

Glimpses of living embryos at various stages in their development (Motion picture) University of Michigan Medical School, 1950.

40 min., ed., b&w, 16 mm.

Summary: Techniques of preparing and photographing living embryos; series of living chick embryos at various ages to illustrate growth processes involved in development of embryonic body. "Close-ups" at higher magnification show in more detail such processes as early heart beats, movement of blood corpuscles within smaller vessels, rocking of embryo by amniotic contractions. Later stages of body formation and hatching, based on worn embryos. —Another issue. 35 min.

Labor and childbirth (Motion picture) Medical Films (later
name Medical Arts Productions) 1951.

Low, cervical milking infection. (Motion picture) U. S. Department of Defense, Armed Forces Institute of Pathology, 1959.

22 min., ad., color, 16 mm. (Chesapeake Section)
Order no. PM-5307R.

Manual rotation in the management of occiput posterior and occiput transverse positions (Joshi, picture). Dept. of Obstetric and Gynecology, Northwestern University Medical School, and the Evanston Hospital, Male and released by the Dept. of Visual Medical Education, Northwestern University Medical School, 1943.

39 min., 41 color, 16 mm.

Synopsis: Illustrates diagnosis of position station, and stage of dilation for: posterior and transverse occiput, presentation; demonstrates: breech, application, and illustration: attraction, rotation, manual rotation, relationship to the contracted, on: position, and position. For analysis of obstetric.

Methodist - life's most important job. (Reason picture)
Institutional Change Series, from 1944.
10 min. ed. 8 min. 16 min.
Summary: Importance of methodists' observability of
providing medical consultation during pregnancy. Proper
diet for expectant mothers, exercise, and
birth, why. Preparing for child's birth, importance
of birth registration.
--- another issue. 20 min.

1. 在下列各数中，找出所有质数。
 2. 将下列各数分解质因数。
 3. 求出下列各组数的最大公约数和最小公倍数。

Obstetrical maneuvers on the Ayers manikin (*Motion picture*) Horace E. Ayers and John G. Muscio. Made by Campus Film Productions, 1943. Released by Clay-Adams Co.

3 min., ed., color, 10 mm.

Summary: Shows a manikin practice room; explains the choice of forceps; demonstrates a forceps delivery on a manikin followed by the use of forceps during a delivery. For medical students, general practitioners, and obstetricians.

Postnatal care (Motion picture) Medical Films (later name Medical Arts Productions) 1950.
12 min., sd., b&w, 16 mm.
Summary: Shows a mother in the hospital room, doing exercises, caring for baby, nursing, etc. Discusses father's relation to new situation and portrays joy to be found in the new family pattern. Discharge and mother's body returns to normal.

Prenatal care (*Motion picture*) Medical Films (later name Medical Arts Productions) 1952.
24 min., sd., b&w; 16 mm.
Summary: Through the prenatal care of three pregnant women tells the need of medical examination and care, discusses correct diet and exercise, and shows proper clothing, etc.

Toxemia of pregnancy. (Motion picture) Irwin, Neisser & Co., 1932. Made by Mervin W. La Rue, inc.
30 min., sd., color; 16 mm.
Summary: Presents concepts and effects of arteriolar vasoconstriction in eclampsia; demonstrates the rationale of a vasodilatory drug (veratrum) in the treatment of cases since 1930. For obstetricians and general practitioners.

Triplet pregnancy: One intrauterine, two extrauterine (*Moon picture*) John C. Irwin. Made and released by Billy Burke Productions, 1940.

12 min., sl. at sl. speed, color, 16 mm.

Summary: Traces the history of a case, including pre-natal X-rays showing twin pregnancy in double transverse presentation, and gastroschisis, one sac attached to the right corner of uterus. Shows delivery of twins, and removal of the retained one, right tube, and ovary, with normal uterus left intact. Shows specimen, demonstrating double sacrocaudal, with indications establishing diagnosis of interstitial-ectopic.

Wise parents, healthy babies. (Motion picture) U. S. Institute of Inter-American Affairs, 1947. Produced by Apex Film Corp.
11 min., sd., color, 16 mm.
Summary: Explains how prenatal services safeguard the health of the prospective mother and child, shows the need for making the baby under the best possible conditions, and the need for immunization of the baby against certain diseases.

Aspiration of the anterior chamber in subconjunctivitis approach (Motion picture) Conrad Berens. Released by Ophthalmological Foundation, 1947.
15 min., 16 mm. color, 16 mm.
Summary: Shows a method of aspirating the anterior chamber by means of a syringe and a hypodermic needle. For ophthalmologists and medical students.

Color vision (Motion picture) The Ophthalmological Foundation, Inc., 1949.
9 min., si., color, 16 mm.
Summary: Instruments used to detect color vision defects. (See Conrad Barons, Gerald Fonda).

Corneal contact lenses (*Motion picture*) Ophthalmological Foundation, Inc., 1951.
10 min., sl., color, 16 mm.
Summary: Technique of fitting contact lenses (Dr. Gerard Barnes, Louis J. Girard).

Cycloelectrolysis for glaucoma (*Motion picture*) The Ophthalmological Foundation, Inc., 1948.
25 min., st., color, 16 mm.
Summary: Indications, contraindications, technique of cycloelectrolysis for control of various types of glaucoma (Dr. Conrad Berens, L. Benjamin Sheppard, Arthur B.

The embryology of the eye (*Motion picture*) American Academy of Ophthalmology and Otolaryngology, 1950.
Made by Sturges-Grant Productions.
41 min., color, 16 mm.
With 178 2 x 2 in. lantern slides, and mimeographed text. Supplementary filmstrip of the same title also available.
Summary: Presents the development of the eye: the optic cup, lens, retina, vitreous and optic nerve, the anterior eye regions and orbit, the vascular system, and the facial region. For students of embryology and ophthalmology.

The enemy of your eyes (*Motion picture*) U. S. Indian Service, 1950.
13 min., sd., color, 16 mm.
Summary: Shows the treatment for trachoma given a Navaho family and the successful cure effected in an Indian Service hospital. Emphasizes the importance of avoiding reinfection by improved home sanitation.

Errors of refraction (Motion picture) Dept. of Audio Visual Medical Education, and Dept. of Ophthalmology, Northwestern University Medical School, 1944. Made by Mervin W. La Rue, inc.
50 min., st., color 18 mm.
Summary In animated diagrams presents the basic principles of the optical properties of lenses and the refractive errors of the eye. Includes chapters on physiology and ophthalmology.

Evisceration with plastic scleral implant (*Motion picture*)
The Ophthalmological Foundation, Inc., 1951.

Summary: Indications and contraindications, surgical technic of eversion with implantation of special hollow plastic implant into scleral shell (Drs. Conrad Berens, A. R. Ross).

Eyes of service (*Motion picture*) Boston Eye Bank,
1963.
12 min., sd., color, 16 mm.
Summary: Work of Boston Eye Bank as seen through the
eyes of a patient who has undergone corneal transplant
operation.

Glaucoma: What the general practitioner should know
(Motion picture) National Society for the Prevention of
Blindness, 1951. Produced by Sturgis-Grant Productions.
23 min., sd., color, 16 mm.

Synopsis: Presents, largely in animation, the statistics and patho-
logical physiology of glaucoma, and its signs and symptoms; demon-
strates examination by the general practitioner and ophthalmologist;
practitioners, medical students.

Iridocapsulotomy and capsulotomy (Motion picture) The Ophthalmological Foundation, Inc., 1951. 8 min., sl., color, 16 mm.

Summary: Technique of capsulotomy and iridocapsulotomy for secondary cataracts (Dr. Conrad Berens).

Removal of magnetic foreign bodies from the eye (Motion picture) U. S. War Dept., 1946.
14 min., st., color, 16 mm.
Order no. FMF 5000.
Summary: Demonstrates techniques in removing magnetic foreign bodies from the eye. Portrays the handling of a detached retina.

Summary: Surgical procedure for separation of retina (Dr. Conrad Berns).

Retroplacement of the inferior oblique at the scleral insertion (Motion picture) Ophthalmological Foundation, 1949.
Made by Conrad Berens.
18 min., st. color, 16 mm.
Summary: Shows a technic for the resection of the inferior oblique.

MEDICINE—Ophthalmology

Right on the nose (Motion picture) American Optical Co. 1944.

34 min., ed., b&w, 16 mm.

Summary: How to adjust industrial safety goggles with non-prescription lenses to assure each wearer maximum protection with comfort; how to alter goggles; how to care for them.

Routine examination of extra ocular motility (Motion picture) The Ophthalmological Foundation, 1951.

40 min., ed., color, 16 mm.

Summary: Instruments and technique for measuring motility of extra ocular muscles (Drs. Conrad Borens, Louis J. Green).

Superficial keratectomy (Motion picture) The Ophthalmological Foundation, Inc., 1948.

1 min., ed., color, 16 mm.

Summary: Indications, contraindications and surgical procedure for excision of superficial opacities of cornea (Dr. Conrad Borens).

Transplantation of Tenon's capsule (Motion picture) The Ophthalmological Foundation, 1948.

15 min., ed., color, 16 mm.

Summary: Correction of postoperative cicatricial asthenia by transplantation of Tenon's capsule (Drs. Conrad Borens, Ilustar Romanes).

MEDICINE—Otorhinolaryngology

Anatomy of the ear (Motion picture) Doho Chemical Company, 1948.

35 min., ed., color, 16 mm.

Summary: Anatomy of ear as surgeon sees it. Important landmarks in their relation to diverse surgical procedures; their significance. Guides toward safety in surgery. Age changes in temporal bone which vary relationship of vital structures. Prevalent variations from normal shown with particular reference to recognition before surgical accidents happen.

Chronic purulent otitis media (Motion picture) Medical Film Guild, Ltd., 1945.

47 min., ed., color, 16 mm.

Summary: One common symptom of chronic middle ear suppuration, the characteristically dischargeless ear. Otoscopic examination, tympanometry, findings differences between dangerous and non-dangerous lesions. Dangerous type converted into non-dangerous type by tympano-mastoidectomy.

A clinic on acute mastoiditis (Motion picture) Doho Chemical Corporation, 1947.

35 min., ed., color, 16 mm.

Summary: Anatomy of mastoid process, etiological factors, influence of general conditions on development of mastoiditis. How acute coalescent and acute serous mastoiditis develop; pathology depicted. Symptomatology and types of clinical variations. Postoperative findings; surgical anatomy. Operative procedures; importance of landmarks; use of instruments; relationship of vital structures. Postoperative care; complications to be expected (Drs. Samuel J. Kopetzky, Dr. Ralph Almour).

A clinic on chronic otitis purulenta (Motion picture) Doho Chemical Corporation, 1948.

35 min., ed., color, 16 mm.

Summary: Presentation on actual patients in hospital's out-patient department, of various types of lesions with new symptoms in common, characteristically discharging ear. Differential diagnostic data; underlying pathology; operative and non-operative therapy. Surgical procedures of medical tympanomastoidectomy. Estimations of loss of hearing acuity due to lesions, and following surgery.

A clinic on deafness (Motion picture) Auralgan Research Division, Doho Chemical Corp. Made and released by Medical Film Guild, Ltd., 1946.

33 min., ed., color, 16 mm.

Summary: Theories and physiology of hearing, diagnostic methods to determine the range of hearing, and various medical and surgical therapeutic methods. For otorhinolaryngologists.

A clinic on petrositis with meningitis (Motion picture) Medical Film Guild, Ltd., 1940.

30 min., ed., color, 16 mm.

Summary: Story of management and therapy of acute suppurative petrositis. Symptoms shown pictorially with animated charts of laboratory and clinical findings.

A clinic on sigmoid sinus thrombosis (Motion picture) Medical Film Guild, Ltd., 1941.

35 min., ed., color, 16 mm.

Summary: Anatomy, genesis of lesion, symptomatology and operative therapy presented as it occurred in actual case of sigmoid sinus thrombosis. Diagnosis, anatomical models.

Clinic on the deafened (Motion picture) Doho Chemical Corporation, 1950.

35 min., ed., color, 16 mm.

Summary: Clinic of cases of deafness; factors; causes differentiated. Prevalent theories of sound perception, principle causes of deafness, diagnostic determinations. Audiology explained, medical and surgical therapy evaluated (Drs. Samuel J. Kopetzky and Ralph Almour).

Correction of nasal deformities (Motion picture) Davis & Geck, Inc., 1941.

19 min., ed., color, 16 mm.

Summary: Several types of nasal deformities; corrections. Operations for reduction in size of nose with reconstruction of lower lateral cartilages (Drs. J. Barnett Brown and F. McDowell).

Diseases of the ear, nose, and throat (Motion picture) Paul H. Hollinger, 1946.

20 min., ed., color, 16 mm.

Summary: A selection of endoscopic motion picture views through the nasal and the otic spectrum, laryngoscopy and esophagoscopy, with identifying titles, showing normal structures and the most commonly encountered disease entities. For medical students, interns, residents, physicians, specialists in otorhinolaryngology and chest diseases, and nurses.

A dry clinic on sinus thrombosis (Motion picture) Doho Chemical Corporation, 1947.

35 min., ed., color, 16 mm.

Summary: Anatomy, genesis of lesion, symptomatology and operative therapy of otitis sinus thrombosis as they occurred in actual cases. Each step as cases developed; laboratory test (Drs. Samuel J. Kopetzky, Ralph Almour, Julius W. Bell).

Examination of the ear, nose, and throat; instrumentation and technique (Motion picture) State University of Iowa, College of Medicine, Dept. of Otolaryngology and Maxillo-Facial Surgery, 1951. Made by the State University of Iowa, Bureau of Audio-Visual Instruction.

27 min., ed., color, 16 mm.

Kobakbrum.
Summary: Presents a routine procedure for ear, nose, and throat examination; explains the instruments and how they are used. For medical students, residents, and general practitioners.

The fenestration operation for otosclerosis (Motion picture) Heinrich F. O. Kobrak, with the Medical Film Guild, Ltd., 1947.

42 min., ed., color, 16 mm.

Summary: Through animated drawings demonstrate the anatomy of the ear, the normal mechanism of hearing, and the development of an otosclerotic focus with its effect on the stapes; through endoscopic cinematography shows the author's procedure for exposure of the middle ear and creation of a new fenestra; demonstrates the action of the stapes vibrator; and presents the patient post-operatively. For otologists, general practitioners, residents.

Foreign bodies in the air and food passages (Motion picture) Paul H. Hollinger, 1951.

31 min., ed., color, 16 mm.

Summary: Endoscopic views of frequently encountered foreign bodies in the esophagus, trachea, and bronchi. Illustrates the removal of the foreign bodies and their valve action in the air passages. For medical students, interns, residents, general practitioners, gastroenterologists, otolaryngologists, and pediatricians.

MEDICINE—Otorhinolaryngology

The function of the ear in health and disease (Motion picture) Doho Chemical Corporation, 1951.

35 min., ed., color, 16 mm.

Summary: Response of ear to sound in health and disease. Pathologic conditions seen and simultaneously distorted acoustic signal which patient perceives, in head (Drs. H. G. Kobrak, Joseph E. Hild, Robert B. Miller).

Functional study of the tongue and the velopharyngeal musculature (Motion picture) University of Minnesota. Produced and released by Audio Visual Education Service, University of Minnesota, 1950.

8 min., ed., color, 16 mm.

Summary: Demonstrates velopharyngeal closure and action of the tongue in all phonetic range as viewed from above through a clear plastic plate; and shows internal and external prosthetic restoration. For students of medicine, dental surgery, and speech.

The functions of the ear in health and disease (Motion picture) Heinrich F. O. Kobrak, made 1948. Released by Medical Film Guild.

31 min., ed., color, 16 mm.

Summary: Demonstrates vibrations of the ossicles in the normal middle ear during auditory stimulation, as seen with stroboscopic cinematography through windows dissected through the temporal bone. Descriptive pathologies: otosclerosis, adhesions, and nerve deafness; and shows the complete ossicular vibrations created by sound music. For medical students and residents in otology.

The infant larynx (Motion picture) Paul H. Hollinger, 1946.

10 min., ed., color, 16 mm.

Summary: Direct laryngoscopic views of the normal adult and infant larynx, correlated in some cases with roentgenograms. For medical students, interns, residents, general practitioners, otolaryngologists, pediatricians, internists, and gastroenterologists.

The inner ear; a cinematographic study of some aspects of its anatomy, physiology, and pathology (Motion picture) Heinrich F. O. Kobrak, with the Medical Film Guild, Ltd., 1951.

55 min., ed., color, 16 mm.

Summary: Shows dissections of the utricule, saccule, semicircular canals and cochlea of animals and humans; demonstrates the acoustic function of the cochlea through windows in the optic capsule; shows acoustic vibrations of the stapes, basilar membrane, and intralabyrinthine fluid; descriptive histology of the inner ear; shows acoustic reflexes of the middle ear. For medical students, otologists, physiologists.

Non-operative treatment of paranasal sinusitis (Motion picture) Medical Film Guild, Ltd., 1941.

16 min., ed., color, 16 mm.

Summary: Approach to conservative management of sinus infections encountered in daily routine. Simple forms of therapy which have proven efficacious.

MEDICINE—Parasitology

Ocular histology (Motion picture) Medical Film Unit, 1944.

18 min., 40 sec., 16 mm.

Summary: Living histology of eye conjunctiva, cornea, lens, vitreous and retina in health and disease. The principle of histological examination analyzed ranging from diffuse illumination through selective section to specific collection. Pathologic changes.

Organic disorders of the larynx (Motion picture) The Jacques Helinger Memorial Fund, 1945.

20 min., 40 sec., 16 mm.

Summary: Selected laryngoscopic views of traumatic, congenital, infectious, and degenerative disorders of the larynx. For laryngoscopic, phonetic, and clinical photographs, radiographs, and medical records.

Roentgen cinematography of the larynx and trachea and esophagus (Motion picture) The Jacques Helinger Memorial Fund, 1945.

20 min., 40 sec., 16 mm.

Summary: Anatomical and pathological of the larynx as seen through the roentgen and fluoroscope. Normal and abnormal conditions of the larynx, trachea, and esophagus. Illustrations of the specific picture showing the larynx, trachea, and esophagus in various positions. In the absence of the larynx, the trachea and esophagus are shown in various positions. In the absence of the larynx, the trachea and esophagus are shown in various positions.

Roentgen in the inflammation (Motion picture) Doh Chemical Corporation, 1946.

20 min., 40 sec., 16 mm.

Summary: Series of roentgen examinations, presenting normal, inflamed, and suppurative lesions of the larynx, trachea, and esophagus. Normal and abnormal conditions of the larynx, trachea, and esophagus. Illustrations of the specific picture showing the larynx, trachea, and esophagus in various positions. In the absence of the larynx, the trachea and esophagus are shown in various positions. In the absence of the larynx, the trachea and esophagus are shown in various positions.

Roentgen of the trachea through the larynx (Motion picture) U. S. Department of Defense, Medical Research Division of Pathology, 1946.

20 min., 40 sec., 16 mm.

Summary: Roentgen of the trachea through the larynx. Illustrations of the specific picture showing the larynx, trachea, and esophagus in various positions. In the absence of the larynx, the trachea and esophagus are shown in various positions. In the absence of the larynx, the trachea and esophagus are shown in various positions.

A study of vocal cord abnormalities following bulbar poliomyelitis (Motion picture) University of Minnesota, 1942.

14 min., 40 sec., 16 mm.

Summary: Pictures the functioning of normal and affected human vocal cords and performs various following bulbar poliomyelitis; shows the technique of laryngeal cinematography. For medical students, physicians, and clinical photographers.

Suppurative otitis media—symptoms, operations and recovery (Motion picture) Doh Chemical Corporation, 1946.

20 min., 40 sec., 16 mm.

Summary: Case history of suppurative otitis media; management and therapy. When and why each operative procedure was undertaken; minimal surgery; results from each stage, complete recovery. (Dr. Samuel J. Kopsky, Ralph Abmair).

Tuberculosis of the larynx, tracheobronchial tree and esophagus (Motion picture) The Jacques Helinger Memorial Fund, 1945.

13 min., 40 sec., 16 mm.

Summary: Endoscopic photographs of laryngeal, bronchial and esophageal tuberculosis. Laryngeal lesions, tuberculous lesions in trachea and bronchi; bronchial tuberculosis associated with collapse therapy; examples of bronchial stenosis. Roentgenographic views demonstrate tuberculosis of esophagus.

MEDICINE—Parasitology

Australorbis glabratus, vector of Schistosoma mansoni (Motion picture) U. S. Public Health Service, 1947.

3 min., 40 sec., 16 mm.

Summary: Illustrates through aquarium scenes the life cycle of Australorbis glabratus, the planorbis snail which is the intermediate host and principal transmitting species in tropical America of Schistosoma mansoni.

The collection of adult flies (Motion picture) U. S. Public Health Service, 1949.

4 min., 40 sec., 16 mm.

Summary: Shows three devices for adult fly collection—sweep net, for rapid capture. It traps for definite qualitative studies, and was used for collecting five thousand natural specimens.

Eggs and miracidia of Schistosoma mansoni (Motion picture) U. S. Public Health Service, 1947.

3 min., 40 sec., 16 mm.

Summary: Photomicrographic scenes of Schistosoma mansoni eggs hatching in fresh water, and the miracidia searching for a suitable snail as the intermediate host.

Excretion and motility of Endamoeba histolytica (Motion picture) U. S. Public Health Service, 1948.

3 min., 40 sec., 16 mm.

Summary: Shows by bright-field and dark-field illumination the process of excretion of the trophozoite of Endamoeba histolytica.

Hookworm (Motion picture) U. S. Office of Inter-American Affairs, 1945.

10 min., 40 sec., 16 mm.

Summary: Explains how a family is reduced to weakness and poverty by hookworms and how they rid themselves of them; emphasizes preventive sanitary measures. Animated cartoon.

Infective larvae of Wuchereria bancrofti (Motion picture) U. S. Public Health Service, 1947.

4 min., 40 sec., 16 mm.

Summary: Shows how the fly, mosquito, and louse are carriers of the parasite. Illustrates the life cycle of the parasite in the human body and the principal transmitting species in tropical America of Schistosoma mansoni.

Insects as carriers of disease (Motion picture) U. S. Office of Inter-American Affairs, 1945.

9 min., 40 sec., 16 mm.

Summary: Shows how the fly, mosquito, and louse are carriers of the parasite. Illustrates the life cycle of the parasite in the human body and the principal transmitting species in tropical America of Schistosoma mansoni.

Life cycle of Diphyllorhynchus latum (Motion picture) U. S. Public Health Service, 1950.

17 min., 40 sec., 16 mm.

Summary: Shows the life cycle of Diphyllorhynchus latum, a parasite of the human small intestine. Illustrates the life cycle of the parasite in the human body and the principal transmitting species in tropical America of Schistosoma mansoni.

The life history of endamoeba histolytica (Motion picture) Mayo Clinic, 1934.

10 min., 40 sec., 16 mm.

Summary: Motile form (trophozoite) of E. histolytica lives in large bowel of man; photomicrograph of motile amoeboe in wet preparation. Morphology of amoeboe from this source compared with that of amoeboe from laboratory cultures. Development of E. histolytica described. Cystic form, how acted upon by digestive juices, liberating new generation of parasite in new host.

MEDICINE—Parasitology

The life history of the Rocky Mountain wood tick (Motion picture) U. S. Public Health Service, 1950.

23 min., 40 sec., 16 mm.

Summary: Explains the distribution, development, and diseases spread by Dermacentor andersoni. Shows the type of habitat, wild and domestic animal hosts, methods of attaching and biting, and the four stages in the life cycle of the tick. For students of entomology, parasitology, and bacteriology.

Manson's blood fluke (Motion picture) U. S. Public Health Service, 1945.

10 min., 40 sec., 16 mm.

Summary: Demonstrates stages in the life cycle of Schistosoma mansoni in secondary and primary hosts; explains the biologic relationship between the blood fluke and its hosts—man and snail; and discusses the pathology of Manson's schistosomiasis in man. Primarily animation and photomicrography.

Miracidia of Schistosoma japonicum (Motion picture) U. S. Public Health Service, 1947.

4 min., 40 sec., 16 mm.

Summary: Cinematography of miracidia of Schistosoma japonicum inside egg shell and live in fresh water, showing absence of egg shell and activity of contained miracidia.

Movements of Endamoeba histolytica (Motion picture) U. S. Public Health Service, 1947.

2 min., 40 sec., 16 mm.

Summary: Shows how the fly, mosquito, and louse are carriers of the parasite. Illustrates the life cycle of the parasite in the human body and the principal transmitting species in tropical America of Schistosoma mansoni.

Sandy control (Motion picture) U. S. Dept. of the Army, 1947.

22 min., 40 sec., 16 mm.

Summary: Explains the symptoms and treatment of disease transmitted by the sandfly. Illustrates the life cycle of the parasite in the human body and the principal transmitting species in tropical America of Schistosoma mansoni.

Schistosomes in the primary host (Motion picture) U. S. Public Health Service, 1945.

7 min., 40 sec., 16 mm.

Summary: Shows through photomicrography the development of schistosomes, male and female, in various stages of growth in primary host—rabbit and mouse.

Schistosomiasis (Motion picture) U. S. Dept. of the Army, 1946.

27 min., 40 sec., 16 mm.

Summary: Explains the relationship of the three types of schistosomiasis with reference to geographical habitat, epidemiology, symptomatology, and general control measures. Shows various techniques, clinical, and laboratory procedures in the diagnosis and treatment of schistosomiasis japonica. For medical and scientific personnel.

MEDICINE—Parasitology

Schistosomiasis—small fever (Motion picture) U. S. War Dept., 1946.
10 min., 44, 16w, 16 mm.
Order no. MP 1200.
Summary: Discusses the cause of schistosomiasis and indicates preventive measures.
— Another issue. 35 mm.

Sporocysts and cercariae of Schistosoma mansoni (Motion picture) U. S. Public Health Service, 1945.
6 min., 44, 16w, 16 mm. (Schistosomiasis manusi study film)
Order no. 4-004.
Summary: A photomicrographic study of cercarial movements and characteristics.
— Another issue. 35 mm.

Trichinosis (Motion picture) State University of Iowa, College of Medicine. Made by Dept. of Hygiene & Preventive Medicine, 1948. Released by State University of Iowa, Extension Division.
10 min., 44, color, 16 mm.
Summary: Illustrates source of infection and public health statistics. Demonstrates muscular diagnosis and larval digestion. Shows many aspects of the life cycle of *Trichinella spiralis*. For students of parasitology.

MEDICINE—Pathology

Benign tumors of the uterus (Motion picture) Rutgers University. Released by State University of Iowa.
10 min., 44, color, 16 mm.
Summary: Types of benign uterine tumors; gross pathology. Tumors in situ as seen on operating table; removed and sectioned for gross study. Animations illustrate growth and production of some symptoms. Operative technique not shown.

Breast cancer: The problem of early diagnosis (Motion picture) American Cancer Society and U. S. National Cancer Institute, 1948. Produced by Audio Productions.
31 min., 44, color, 16 mm.
With booklet.
Summary: A survey of cancer of the breast, covering normal breast development, clinical pathology of breast cancer, and early diagnosis. Points out that patients with bronchogenic carcinoma can be cured if diagnosed and treated early. For general practitioners, internists, radiologists, obstetricians, and medical students.

Bronchogenic carcinoma (Motion picture) U. S. Veterans Administration, 1931. Made by U. S. Dept. of Agriculture.
10 min., 44, color, 16 mm.
Summary: Explains the incidence of bronchogenic carcinoma, its diagnosis, behavior and general management; and points out that patients with bronchogenic carcinoma can be cured if diagnosed and treated early. For general practitioners, internists, radiologists, and medical students.

Cancer (Motion picture) Encyclopedia Britannica Films, 1953.
12 min., 44, 16w, 16 mm.
Summary: Describes the causes and symptoms of cancer and shows how cancers are identified and treated. Discusses the use of X-ray and surgery in the treatment of the disease.

Cancer of the female breast (Motion picture) Davis & Geck, Inc., 1941.
17 min., 44, color, 16 mm.
Summary: Describes several types of carcinoma demonstrated; methods of biopsy; results of treatment by combination of irradiation and operation. Performance of later stages in detail. (Dr. Frank E. Adair)

Cancer: The problem of early diagnosis (Motion picture) American Cancer Society and U. S. National Cancer Institute, 1949. Produced by Audio Productions.
21 min., 44, color, 16 mm.
With booklet.
Summary: Surveys the incidence of five common forms of cancer—breast, cervix, stomach, lung, and large intestine—and shows in each case how early diagnosis and treatment have reduced mortality figures. For general practitioners, residents, interns, medical students.

Carcinoma of the cecum and ascending colon (Motion picture) Hilder P. Jenkins, Robert H. Moe, Robert E. L. Gunning, and John Campiche.
13 min., 44, color, 16 mm.
Summary: Demonstrates the surgical pathology at the operative table and in the resected specimen of four patients with carcinomas of the cecum and ascending colon, with pertinent history, physical findings, and laboratory and X-ray data.

The diagnosis of surgical lesions of the alimentary tract. Part 1: The primary examination (Motion picture) U. S. Dept. of the Army, 1951.
20 min., 44, 16w, 16 mm.
Order no. PMP 8177-A.
Summary: Presents a patient with symptoms referable to the alimentary tract. Shows the history taking, physical examination, and laboratory procedures performed by a medical officer. Gives a tentative diagnosis of malignant disease of the sigmoid colon; and also shows a sigmoidoscopic examination and a chemical test for occult blood in stool. For medical personnel.
— Another issue. 35 mm.

The diagnosis of surgical lesions of the alimentary tract. Part 2: Special techniques and apparatus (Motion picture) U. S. Dept. of the Army, 1951.
21 min., 44, 16w, 16 mm.
Order no. PMP 8177-B.
Summary: Demonstrates the utilization of such diagnostic procedures as fluoroscopy, roentgenography, cytologic study, and biopsy. Illustrates a case of schistosoma of the esophagus, and a case of carcinoma of the stomach.
— Another issue. 35 mm.

The diagnosis of uterine malignancies (Motion picture) Dept. of Obstetrics and Gynecology, Jefferson Medical College, 1950.
13 min., 44, color, 16 mm.
Summary: An introduction to the basic procedures necessary for the detection of uterine cancer, including the pelvic examination, the taking of smears for cytological diagnosis, endometrial curettage and cervical biopsy. For medical students, general practitioners, student and graduate nurses.

Diseases of the esophagus (Motion picture) Paul H. Hollinger, 1945.
27 min., 44, color, 16 mm.
Summary: Presents briefly the technique of esophagoscopy and correlates the clinical, X-ray, and endoscopic findings in some common diseases of the esophagus—stricture, diverticula, cardiospasm, for- digit lesions, and cancer. For medical students, internists, radiologists, general practitioners, internists, gastro-enterologists, and otolaryngologists.

Dividing cancer cells in vitro (Motion picture) Warren H. Lewis, 1953.
7 min., 44, 16w, 16 mm.
Summary: A cinematographic record of dividing carcinoma cells in tissue culture, showing the phases of bipolar and tripolar mitosis. For cytologists, undergraduate and graduate students in biology, medical students.

— Another issue. 35 mm.

The doctor speaks his mind (Motion picture) American Cancer Society, 1948.
22 min., 44, 16w, 16 mm.
Summary: Describes symptoms of cancer and how they may be detected, and shows the happy results of early medical attention. Designed to provide a professional speaker qualified to discuss the medical and scientific aspects of cancer.

The endoscopic appearance of diseases of the trachea (Motion picture) Paul H. Hollinger, 1951.
23 min., 44, color, 16 mm.
Summary: Bronchoscopic and tracheoscopic views of several congenital anomalies of the trachea, benign strictures, inflammatory processes, and benign and malignant tumors. For medical students, interns, residents, general practitioners, internists, thoracic surgeons, otolaryngologists, and gastro-enterologists.

Examination of the breast for early cancer (Motion picture) California State Dept. of Public Health and the Cancer Commission of the California Medical Association, 1949. Produced by Billy Burke Productions.
10 min., 44, color, 16 mm.
Summary: Demonstrates a routine breast examination to be performed when a patient reports a lump in the breast; shows a few common lesions of the breast, some successful results after prompt understanding, and a case following palliative X-ray. For medical practitioners, medical students, interns, residents, and nurses.

The exfoliative cytologic method in the diagnosis of gastric cancer (Motion picture) American Cancer Society, 1951.
10 min., 44, color, 16 mm.
Summary: Demonstrates the principles and technique of a cytological approach to the diagnosis of gastric pathology; shows double lumens tube, balloon, and net; demonstrates the passage of the balloon, collection of cells on the net, concentration and microscopic examination of surface biopsy tissue. For general practitioners, medical students, internists, and surgeons.

From one cell (Motion picture) American Cancer Society, 1950. Made by Sturgis-Grant Productions.
13 min., 44, color, 16 mm.
Summary: The story of how all human life develops from a single cell. Describes normal and abnormal cell growth and development from the fertilization of the egg through the various stages of life from infancy to old age. In diagrammatic and live-action sequences the process of growth and development is shown, particularly the repeating and replacing of bodily tissue. Discusses the abnormal growth of cancer.

Gastrointestinal cancer: The problem of early diagnosis (Motion picture) U. S. National Cancer Institute and American Cancer Society, 1950. Produced by Audio Productions.
23 min., 44, color, 16 mm.
With folder and booklet.
Summary: A survey of cancer of the esophagus, stomach, small and large intestine, and rectum, pointing out points in diagnosis and stressing early discovery and treatment in averting mortality figures. For general practitioners, radiologists, particularly of internal medicine, internists, medical students in their clinical years.

Hemorrhage from duodenal ulcer (Motion picture) Davis & Geck, Inc., 1953.
11 min., 44, color, 16 mm.
Order no. C-197.

Lung cancer: The problem of early diagnosis (Motion picture) U. S. Public Health Service and American Cancer Society, 1954. Made by Audio Productions.
23 min., 44, color, 16 mm.
With booklet.
Summary: Emphasizes the importance of periodic chest X-rays in the control of cancer of the lungs; shows by animation the history of lung cancer and the marked increase in its incidence; explains the diagnosis of lung cancer through illustrations of X-ray diagnostic pictures, the value of exfoliative cytology, the value of bronchoscopy, and an exploratory thorotomy for biopsy of an unknown chest lesion. For professional audiences.

Malignant oral tumors (Motion picture) U. S. Dept. of the Army, 1950.
40 min., 44, color, 16 mm.
Order no. PMP 8177.
Summary: Gives the history, diagnosis, characteristics, treatment, and results of various cases of malignant oral tumors. For professional personnel.

Malrotation of the bowel (Motion picture) Willis J. Potts, M. D., 1955.
15 min., 44, color, 16 mm.

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MEDICINE—Physical Medicine

MEDICINE—Physical Medicine

Accent on use (Motion picture) National Foundation for Infantile Paralysis, 1948. Made by RKO Public.

20 min., sd., b&w, 16 mm.

With film guide. Summary: This play by the forces of nature—heat, light, water, and electricity—when utilized as physical therapy in restoring infantile paralysis victims to health.

—Another issue. 35 mm.

A new horizon (Motion picture) The National Foundation for Infantile Paralysis, 1948.

20 min., sd., b&w, 16 mm.

Summary: Technical film on physical therapy (infantile paralysis). Reoriented to medical profession.

—Another issue. 35 mm.

Orthopedic rehabilitation of spinal cord injuries (Motion picture) Institute for the Crippled and Disabled, 1948.

25 min., sd., b&w, 16 mm.

Summary: Methods used by Institute for the Crippled and Disabled in carrying out physical rehabilitation program for patients with spinal cord injuries. Activities of the Institute: physical rehabilitation, vocational training, social adjustment, mental hygiene, sheltered workshop, orthopedic appliance services; final resettlement in outside employment and normal social life.

Physical medicine service (Motion picture) U. S. Dept. of the Army, 1948.

30 min., sd., b&w, 16 mm.

Order no. PMP 5072. Summary: Explains the U. S. Army's program (1948) in the field of physical medicine rehabilitation, the organizational relationships governing the type, frequency, and duration of treatment.

—Another issue. 35 mm.

Relative exercises in physical therapy for rheumatoid arthritis (Motion picture) U. S. Veterans Administration, 1950.

30 min., sd., color, 16 mm.

Summary: Explains how the skeletal structure and muscle balance are affected by rheumatic surgery; describes the deformities often resulting from rheumatic surgery; and shows how such deformities can be minimized or corrected by posture, over-correction, and relative exercises. For medical personnel.

Tendon transplants (Motion picture) U. S. Department of Defense, Armed Forces Institute of Pathology, 1947.

7 min., sd., b&w, 16 mm. (Therapeutic Exercise Series)

Order no. PMP 5034. Summary: Therapeutic exercises used in educating transplanted tendons in new functions.

Testing and individual therapy for the aphasic patient (Motion picture) U. S. Veterans Administration, 1950.

Made by Churchill-Wexler Film Productions.

25 min., sd., color, 16 mm. (Aphasia, no. 2)

Summary: Explains the testing and rehabilitation procedures that are used in Veterans Administration hospitals for aphasia of different types; demonstrates various methods of psychological and personality testing; and shows patients undergoing therapy for motor, sensory, and formulation aphasia. For medical personnel.

Therapeutic exercise: Introduction (Motion picture) U. S. Dept. of the Army, 1947. Released for public educational use through U. S. Office of Education, 1950.

17 min., sd., b&w, 16 mm.

Order no. PMP 5081. Summary: An Army surgeon talks to his staff about pertinent problems in the use of therapeutic exercise—nature of the injury, stage of healing of the patient, precautions to be observed; and illustrates appropriate exercises to be used with patients with spine, spinal cord, brain, chest, etc. injuries. For professional personnel.

—Another issue. 35 mm.

Therapeutic exercise: Orthopedics (Motion picture) U. S. Dept. of the Army, 1947. Released for public educational use through U. S. Office of Education, 1950.

20 min., sd., b&w, 16 mm.

Order no. PMP 5061. Summary: Demonstrates therapeutic exercises suitable in the management of orthopedic cases.

—Another issue. 35 mm.

Therapeutic exercise: Thoracic surgery (Motion picture) U. S. Dept. of the Army, 1947. Released for public educational use through U. S. Office of Education, 1950.

25 min., sd., b&w, 16 mm.

Order no. PMP 5060. Summary: Covers physical examination of patients; determination of specific residual activity; characteristic deformities; preoperative exercises; general aspects of surgery; postoperative treatment and therapy. For medical personnel.

—Another issue. 35 mm.

Therapeutic uses of heat and cold; part 1: Administering hot applications (Motion picture) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.

21 min., sd., b&w, 16 mm. (Nursing series)

Order no. OSE 498. With instructor's manual. Supplementary filmstrip of same title also available. Summary: Body reactions to heat, use of heat in the alleviation of pain, how to apply hot water bottles, electric pads, chemical pads, and paraffin bath; use of hot, moist, compress, infra-red lamp, and shortwave diathermy.

—Another issue. b&w.

Therapeutic uses of heat and cold; part 2: Administering cold applications (Motion picture) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.

21 min., sd., b&w, 16 mm. (Nursing series)

Order no. OSE 499. With instructor's manual. Supplementary filmstrip of same title also available. Summary: Body responses to cold, therapeutic uses of cold, how to administer cold wet packs and ice bags; apply ice packs to anasthesia and use refrigerating blankets and cold chamber.

—Another issue. b&w.

Underwater therapy (Motion picture) American Medical Association, 1938.

16 min., sd., b&w, 16 mm.

Summary: Therapeutic use of exercise pools, Hubbard tanks and home made tanks; types of exercises given in cases of infantile paralysis, cerebral palsy and post-operative congenital dislocation of hip.

Within your hands (Motion picture) Science Pictures, Inc., 1953.

17 min., sd., b&w, 16 mm.

MEDICINE—Physiology

Body defenses against disease (Motion picture) Epi Picture Consultants (later name Encyclopaedia Britannica Films) 1957.

11 min., sd., b&w, 16 mm.

With film guide. Summary: Demonstrates through animated drawings and close microscopy the three lines of defense against infection—the skin and mucous membranes, the lymphatic system, and the circulatory system including liver and spleen. Explains immunity to certain diseases, and describes how man can improve defense against infection. For high school, college, and adult groups.

Body fights bacteria (Motion picture) McGraw-Hill Book Co., 1958.

17 min., sd., b&w, 16 mm. (Health education series, no. 3)

Supplementary filmstrip of the same title also available. Correlated with the book *Healthy Living*, by Harold S. Dool. Summary: Shows how the body sets up defenses against pathogenic bacteria, and stresses the roles of immunization and healthy living in protecting the body against disease. Includes animated drawings. For college and adult groups.

The circulation in the fetus and in the newborn (Motion picture) Sturges-Grant Productions, 1940.

9 min., sd., color, 16 mm.

Summary: Presents the established concept of the anatomy of the fetal circulation and its changes at birth. For medical students, interns, and residents in obstetrics.

Clinical manifestations of paralysis (Motion picture) U. S. Dept. of the Army, 1948.

11 min., sd., color, 16 mm.

Order no. PMP 5090. Summary: Shows by comparison of normal and paralyzed areas clinical manifestations of paralysis affecting the extremities. For medical personnel.

Color of man (Motion picture) Robert Carl Cohen, Released by Educational Film Sales Dept., University of California at Los Angeles, 1954.

10 min., sd., color, 16 mm.

With filmstrip. Summary: Points out man's relationship with his environment by showing how different climatic conditions have affected human activity and development, and explains that hereditary differences, as exemplified by skin color, are illustrative of the adaptability of man to the forces of nature. Combines animated drawings with live action photography.

MEDICINE—Physiology

Congenital malformations of the heart: Aortic coarctation congenital heart disease (Motion picture) University of Washington School of Medicine, 1953.

14 min., sd., color, 16 mm.

Summary: Presents various congenital lesions of heart and great vessels, grouping them under the clinical paradigm of absence of coarctation, and under the physiological criterion of stenosis which allows blood from arterial to venous side of the circulation.

Congenital malformations of the heart: Cyanotic congenital heart disease (Motion picture) Dept. of Medical Illustration, University of Washington School of Medicine, Released by Film Center, University of Washington, 1953.

20 min., sd., color, 16 mm.

With set of 17 Kodachrome slides. Summary: Explains the nature of cyanosis in congenital heart disease, emphasizing the inefficient oxygenation of the blood, and the shunting of venous blood into the systemic circulation. Shows a few examples to illustrate the significance of these two contributing factors, including tricuspid atresia, tetralogy of Fallot, transposition of the great vessels, persistent truncus arteriosus, and complete transposition of the great vessels. Includes differential diagnosis of these conditions and the principles of surgical therapy.

Congenital malformations of the heart: Development of the normal heart (Motion picture) Dept. of Medical Illustration, University of Washington School of Medicine, 1951.

15 min., sd., color, 16 mm.

Summary: Through cinematography shows the early stages of the developing chick heart, and through animation shows the formation of the chambers and septa of the human heart and the circulatory changes during birth. For students of embryology, medical students, and physicians interested in cardiac malformations.

Control of body temperature (Motion picture) Epi Classroom Films (later name Encyclopaedia Britannica Films) 1950.

11 min., sd., b&w, 16 mm.

With teacher's guide. Summary: Explains the regulation of body temperature. Contrasts the temperature of warm-blooded animals with fluctuating temperature of cold-blooded ones. Reveals the relationship of body heat to energy furnished by food, and depicts the blood stream as a heat distributor. Illustrates body heat loss, and regulation by radiation, conduction, and convection. Depicts the function of hypothalamus in regulating body temperature. For high school, college, and adult groups.

Control of small blood vessels (Motion picture) George P. Fulton and Bretton P. Lutz, 1941.

20 min., sd., b&w, 16 mm.

With descriptive sheets. Summary: Cinematographic abstracts of research film data on neuromotor mechanisms of the terminal blood vessels in the frog, with demonstrations of small vessel reactivity to electrical stimulation of nerves and of the various terminal arterial segments.

The control of voluntary muscles (Some principles of kinesiology) (Motion picture) Audio-Visual Medical Education Dept., and Dept. of Physiology, Northwestern University Medical School, 1943. Made by Mervin W. La Rue, Inc. Released by Audio-Visual Medical Education Dept., Northwestern University Medical School.

21 min., sd., color, 16 mm.

Summary: Portrays muscle action in the human body, with special reference to the muscles of large activity and those of fine activity, illustrated by drawings and a living model. For students of anatomy, physiology, and physical education.

Development and descent of the testes (Motion picture) Alfred H. Isaac, M. D., 1941.

10 min., sd., b&w, 16 mm.

Summary: Formation of testis in various stages, its embryologic path and occasional maldevelopment. Normal and anomalous closure of tunica vaginalis; role of structure in formation of various hernias and hydroceles.

—Another issue. color.

—Another issue. 32 min.

MEDICINE—Physiology

How to avoid muscle strains (*Motion picture*) Bray Studios, 1949.

Summary: Views of a living model in action and animated draw

Intra-oral and pharyngeal structures and their movements
(Motion picture) U. S. Veterans Administration, 1951.

The lymphatic system (Motion picture) U. S.
Department of Defense, Armed Forces Institute of
Pathology, 1953.

Summary: Purpose and function of lymph system. Importance of tissue fluid passing into lymphatics to form lymph; how lymphatic vessels, blood vessels and various organs are coordinated; effect of skeletal system and breathing upon lymphatic vessels; how lymph nodes act against spread of infection.

The male sex hormone (*Motion picture*) Schering Corp., 1950. Made by Sturgis-Grant Productions.
22 min., sd., color, 16 mm.
Summary: Portrays the origin of testosterone, its metabolic effects, deficiency states, and the effect of exogenous male sex hormones in a variety of conditions. For general practitioners.

Mechanisms of breathing (*Motion picture*) Erpi Picture
Consultants (later name Encyclopædia Britannica Films)
1936.

11 min., ed., b&w, 16 mm.
With film guide.
Summary: Analyzes the function of respiration. Through drawings illustrates the work of the pharynx, larynx, trachea, and bronchiole. Reveals the role of the phrenic nerve and change of oxygen and carbon dioxide between air sacs and stream. Describes mechanisms correlating the rates of breathing with body activity. Demonstrates the principles of artificial respiration in infant, child, and adult groups.

Mesenteric lymphatics, their conduct and the behavior of their valves in the living rat (*Motion picture*) The Wistar Institute, 1933.
15 min., ad., b&w, 16 mm.
Summary: Contractility of mesenteric lymphatics in rat. How mesenteric lymphatics in rats and guinea pigs aid in movement of lymph by contracting. (Dr. Richard L. Webb)

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MEDICINE—Preventive Medicine

Multiple screening (Motion picture) Columbia University, 1951.

8 1/2 min., ed., b&w, 10 mm. (cartoon)
Summary: What multiple screening is; how used; how it may be even more widely used to combat chronic diseases.

New frontiers of medicine (Motion picture) March of Time, 1948. Released by McGraw-Hill Book Co.

17 min., ed., b&w, 16 mm.
A Forum film.
Summary: Discusses new drugs, study of the rib blood factor, new developments in nutrition, the artificial kidney, and progress in the treatment of heart disease, cancer, and rheumatic fever.

Principles of penicillin therapy (Motion picture) E. R. Squibb & Sons, 1950. Made by Bray Studios.

22 min., ed., color, 16 mm.
With booklet.
Summary: Covers three principles of penicillin treatment: demonstrate the types of penicillin preparations and their routes of administration; states the application of the antibiotic to many infections, and describes some toxic manifestations. For general practitioners.

Rodney (Motion picture) National Tuberculosis Association, 1951. Produced by Film Graphics. © National Tuberculosis Association; 23 Mar 51 (in notice: 1950); MP1538.

10 min., ed., color, 16 mm.
Summary: An animated cartoon which shows how tuberculosis is spread, how rest and hospital care can cure it, and what people can do to avoid it. Emphasizes the importance of a yearly physical examination and chest X-ray. For high school, college, and adult groups.

The story of Rocky Mountain Spotted Fever (Motion picture) U. S. Department of Health, Education and Welfare, U. S. Public Health Service, 1945.

10 min., ed., color, 16 mm.
Summary: Half century of progress in control of Rocky Mountain Spotted Fever; effort to reduce prevalence of tick; development of prophylactic vaccines. Studies undertaken; methods of attacking problem. Expenses, labor, sacrifice of lives represented in gradual progress. Mystery enveloping the disease, discovery of tick vector, attempted control; infectious agent, other tick vectors, the disease in man, and prevention, including development of tick- and egg-type vaccines.

Typhoid vaccine research (Motion picture) U. S. Dept. of the Army, 1950.

22 min., ed., color, 16 mm.
Order no. PMP 5363.
Summary: Demonstrates the application of classical and special techniques in the solution of research problems pertaining to the potency of typhoid vaccine.

The warning shadow (Motion picture) American Cancer Society and the National Cancer Institute of the U. S. Public Health Service, 1950. Made by Herbert Rietzow, Inc.

10 min., ed., color, 16 mm.
Kodachrome.
Summary: Depicts the first of many successful pneumonectomy lung cancer as performed in St. Louis in 1950 by Dr. Dwyer A. Graham. Applies the importance of semi-annual chest X-rays for men over 45 years of age to facilitate early diagnosis and cure of lung cancer.

MEDICINE—Psychiatry

Activity for schizophrenia (Motion picture) U. S. Veterans Administration, 1950. Made by U. S. Dept. of Agriculture.

20 min., ed., b&w, 16 mm.
Summary: Explains how modern (1950) concepts of activity are applied to distinctive needs of schizophrenic patients; shows particularly how corrective therapies under the guidance of psychiatrists motivate patients from lower levels of activity to more motivated areas by establishing strong interpersonal relationships through the sensory appeal of interrelated physical activities.

Activity group therapy (Motion picture) Nathan Hofheimer Foundation, 1950. Produced by Campus Film Productions.

50 min., ed., b&w, 16 mm.
Summary: A report on the selection of cases for activity group therapy, the conduct of the therapeutic sessions, and the personality development of a group of emotionally disturbed boys during treatment. For psychiatrists, psychologists, psychiatric social workers and medical students.

Angry boy (Motion picture) The Mental Health Film Board and the State of Michigan Dept. of Mental Health. Made by Affiliated Film Producers. Released by International Film Bureau, 1951.

25 min., ed., b&w, 16 mm. (Emotions of every-day living series, no. 7)
Summary: Dramatizes the story of an emotionally disturbed boy whose troubles have developed as a result of unhealthy family relationships. Through psychiatric guidance the boy and his parents are helped to understand and to handle their emotional problems.

An approach to understanding dynamics (Motion picture) U. S. Veterans Administration, 1950.

34 min., ed., b&w, 16 mm. (Psychotherapeutic interviewing series, no. 2)
Summary: Portrays an interview between a patient and a psychiatrist. Analyzes the dynamics of the interview, and explains the patient's reactions to certain experiences and the meaning of these reactions to the psychiatrist. For professional personnel only.

Birth and the first fifteen minutes of life (Motion picture) Rona A. Spitz, M. D., 1949.

10 min., ed., b&w, 16 mm. (Studies—Problems in Infancy)
Summary: Birth of baby and reactions to stimuli presented within first fifteen minutes after birth; first feeding twenty-four hours later. Second baby with contrasting reactions to same stimuli; removal of placenta.

A character neurosis with depressive and compulsive trends in the making (Motion picture) Margaret E. Fries and Paul J. Woolf, made 1945. Released by New York University Film Library, 1952.

20 min., ed., b&w, 16 mm.
Previously released under the title A psychoneurosis with compulsive trends in the making.
With instructor's guide.
Summary: A film record of a girl from birth to puberty, demonstrating the dynamic interaction between the child and her environment. The film is particularly valuable in showing the limiting effect of the personality situation on her personality development. For psychiatrists, psychologists, psychiatric social workers, students of medicine and graduate psychology, pediatricians, obstetricians and physicians and nurses in public health.

Chorea (Motion picture) S. Philip Goodhart and Benjamin Harris Balser, 1944.

16 min., ed., b&w, 16 mm. (Neuropsychiatric disorders)
With manual. Neurological cinematographic atlas, by S. P. Goodhart and B. H. Balser.
Summary: Outlines the three groups of chronic degenerative chorea: Huntington, arteriosclerotic, and postmenopausal. For professional groups only.

A clinical picture of anxiety hysteria (Motion picture) U. S. Veterans Administration, 1952.

20 min., ed., b&w, 16 mm. (Psychotherapeutic interviewing series, no. 5)
Summary: Illustrates psychotherapeutic interviewing principles and techniques through an unrehearsed interview between a psychiatrist and a patient suffering from anxiety hysteria. For professional personnel only.

A clinical picture of claustrophobia (Motion picture) U. S. Veterans Administration, 1952.

21 min., ed., b&w, 16 mm. (Psychotherapeutic interviewing series, no. 5)
Summary: Illustrates psychotherapeutic interviewing principles and techniques through an unrehearsed interview between a psychiatrist and a patient suffering from claustrophobia. For professional personnel only.

Combat exhaustion (Motion picture) U. S. Dept. of the Army, 1945.

50 min., ed., b&w, 16 mm.
Order no. PMP 5012.
Summary: Portrays a colonel in the U. S. Army Medical Corps addressing a group of doctors in the European theater of operations and explaining their responsibilities in treating psychiatric cases, and explaining their responsibilities in treating psychiatric cases, and explaining their responsibilities in treating psychiatric cases. For professional personnel only.

Convulsive and allied conditions (Motion picture) S. Philip Goodhart and Benjamin Harris Balser, 1944.

30 min., ed., b&w, 16 mm. (Neuropsychiatric disorders)
With manual. Neurological cinematographic atlas, by S. P. Goodhart and B. H. Balser.
Summary: Shows patients demonstrating the following disorders: epilepsy, chorea, and psychomotor epilepsy. Includes a section on the treatment of epileptic patients in the hospital setting. For professional groups only.

Dystonia musculorum deformans (Motion picture) S. Philip Goodhart and Benjamin Harris Balser, 1944.

54 min., ed., b&w, 16 mm. (Neuropsychiatric disorders)
With manual. Neurological cinematographic atlas, by S. P. Goodhart and B. H. Balser.
Summary: Depicts patients suffering from various forms of dystonia. Shows one patient in various phases of an illness originally diagnosed as psychogenic and observed for some sixteen years. For professional groups only.

MEDICINE—Psychiatry

Electro-shock therapy in ambulatory practice (Motion picture) Rutgers University. Released by State University of Iowa.

12 min., ed., color, 16 mm.
Summary: Method of treating cases indicated in depression, involutional melancholia, catatonia, hebephrenia, personality conditions, and possibly severe psychoses. Advantages over shock induced by labetal or metrazol. Apparatus demonstrated in detail; preparation of patient and application of electrodes. "Pituitary" and "grand mal" tonic phase and clonic phase of convulsion with occasional psychomotor excitement.

Encephalographic studies in extra-pyramidal diseases (Motion picture) S. Philip Goodhart and Benjamin Harris Balser, 1944.

14 min., ed., b&w, 16 mm. (Neuropsychiatric disorders)
With manual. Neurological cinematographic atlas, by S. P. Goodhart and B. H. Balser.
Summary: Demonstrates changes in the ventricular system. For professional groups only.

Epidemic encephalitis (Motion picture) S. Philip Goodhart and Benjamin Harris Balser, 1944.

31 min., ed., b&w, 16 mm. (Neuropsychiatric disorders)
With manual. Neurological cinematographic atlas, by S. P. Goodhart and B. H. Balser.
Summary: Depicts cases each of which presents some particular feature of the spectrum of epidemic encephalitis. Symptomatology, and presents sequential histories observed in most cases over a period of years. For professional groups only.

Face of youth (Motion picture) Mental Health Division and Bureau of Maternal and Child Health, Wisconsin State Board of Health, 1951. Produced by the University of Wisconsin, Extension Division, Bureau of Visual Instruction.

20 min., ed., b&w, 16 mm.
Summary: Stresses the need for recognition and early treatment of emotional disturbances in children by tracing the successful efforts of a public health nurse in helping two maladjusted boys, as through family guidance, the other through psychotherapy at a mental health clinic. For teachers, parents, vocational guidance classes, and public health nurses.

Feeling all right (Motion picture) Mississippi State Board of Health, 1949.

30 min., ed., b&w, 16 mm.
Summary: Young farmer (in southern U. S. A.) who has contracted syphilis is persuaded to abandon "quack" medicine in favor of free cure by scientific treatment at state health center.

Friedreich's hereditary ataxia and Little's disease (Motion picture) S. Philip Goodhart and Benjamin Harris Balser, 1944.

16 min., ed., b&w, 16 mm. (Neuropsychiatric disorders)
With manual. Neurological cinematographic atlas, by S. P. Goodhart and B. H. Balser.
Summary: Demonstrates four cases of hereditary ataxia, two brothers and two sisters showing classical signs of this entity. Friedreich's disease showing various forms of dystonia as of congenital origin, with abnormal movements predominantly of extra-pyramidal type. For professional groups only.

MEDICINE—Psychiatry

Grief: a peril in infancy (Motion picture) René A. Spitz in collaboration with Katherine M. Wolf, 1947; produced 1948.

22 min., ed., b&w, 16 mm. (Psychiatric Study Series)
Summary: A report on the effects on infants of prolonged separation from the mother, or mother substitute, during the first year of life showing the development of reversible depressive behavior patterns of psychic symptoms. For psychiatrists, psychologists, pediatricians, medical practitioners, pediatricians, sociologists, medical and college students, nurses, social workers.

Hydrotherapy procedures for the neuropsychiatric patient (Motion picture) U. S. Veterans Administration, 1949. Made by U. S. Dept. of Agriculture.

22 min., ed., b&w, 16 mm. (Professional medical films series)
Summary: Demonstrates hydrotherapy procedures (including tub, pack, and shower) for desired results of relaxation and stimulation. Emphasizes the importance of care in the handling of a patient with mental illness, and the importance of good relationship between the patient and the physical therapist.

Introduction to psychotherapeutic interviewing (Motion picture) Veterans Administration, 1949.

10 min., ed., b&w, 16 mm. (Psychiatric Study Series)
Summary: Basic principles of doctor-patient relationship; structure and goals of interview. Specific goals to uncover current symptoms, obtain basic patterns of reaction, observe effects of pattern, understand and interpret meaning and function.

Journey to reality (Motion picture) U. S. Dept. of the Army, 1950. Released for public educational use through U. S. Office of Education, 1952.

30 min., ed., b&w, 16 mm. (Professional medical films series)
Summary: Journey through dramatized sequences six patients in a psychiatric hospital entering a hospital; reviews the case histories and outlines appropriate occupational therapy for each patient. Emphasizes the medical officer's responsibility for protecting and providing occupational therapy.

The lonely night (Motion picture) Mental Health Film Board. Made by Affiliated Film Producers. Released by International Film Bureau, 1954.

65 min., ed., b&w, 35 mm. (Production of every-day living, no. 7)
Summary: Contrasts a normal family life with the unusual conditions of a young lady who is at the point of attempting suicide, and shows how psychiatric care helps in extreme cases of the problem. For professional groups only.

Man to man (Motion picture) Mental Health Film Board. Made by Affiliated Film Producers. Released by International Film Bureau, 1954.

30 min., ed., b&w, 16 mm. (Professional medical films series)
Summary: A recurrent and selective film depicting a psychiatric nurse's relationship to his daily contact with the mental patients under his care, that his work has a therapeutic function, that he is more than just an attendant kind to take care of the elementary physical needs of his patients. Emphasizes movement between him and the psychiatrist, psychiatric social worker, and nurse, and on the meaning of play therapy when coupled with psychotherapy.

A method of procedure (Motion picture) Veterans Administration, 1949.

27 min., ed., b&w, 16 mm. (Psychiatric Study Series)
Summary: Methods of conducting psychiatric interview with patient, analysis. Four principles of conducting insight therapy. Development of effective patient-doctor relationship; use of goal-directed planning and management; focusing on topics relevant to therapeutic goals; use of minimal activity by doctor.

A multiple personality (Motion picture) Medical Film Guild, Ltd., 1947.

20 min., ed., color, 16 mm. (Psychiatric Study Series)
Summary: Carefully worked questions from investigating psychiatrist directed to patient while in state of hypnosis. Observer sees normally hidden interdictions and operation of conscious and unconscious mental mechanisms. Patient's mind in desperate defense against intolerable intrapsychic conflict and anxiety develops four mutually antagonistic sub-personalities; each seen on mutually developed in reality to show personality problem involved. Study carried out under supervision of Department of Psychiatry, Columbia University.

Muscular dystrophies, atrophies, and allied conditions (Motion picture) S. Philip Goodhart, M. D., 1949.

15 min., ed., b&w, 16 mm. (Neuropsychiatric Disorders Series)
Summary: Three illustrative groups of cases in which distinctive features in involvement of body musculature: progressive muscular atrophy, progressive muscular dystrophy, conditions allied to both groups.

Neuro-ophthalmological conditions: Pathological ocular manifestations of clinical interest (Motion picture) S. Philip Goodhart and Benjamin Harris Balser, 1944.

13 min., ed., b&w, 16 mm. (Neuropsychiatric Disorders Series)
With manual. Neurological cinematographic atlas, by S. P. Goodhart and B. H. Balser.
Summary: Illustrates abnormal ophthalmological conditions associated with pathological aims relating to vision. For professional groups only.

Non-verbal communication (Motion picture) U. S. Veterans Administration, 1952.

22 min., ed., b&w, 16 mm. (Psychiatric Study Series, no. 4)
Summary: Discusses the recognition of the clues of nonverbal communication and the manner in which these clues can be used in an interview situation to obtain information and to further therapy. Illustrates the various points through pictures, with subtitles, of actual unrecorded interview situations. For professional personnel only.

A positive approach to the psychiatric patient (Motion picture) U. S. Veterans Administration, 1955. Made by U. S. Dept. of Agriculture.

30 min., ed., color, 16 mm.
Summary: Shows the treatment in Veterans Administration hospital for psychiatric patients who have emerged from acute episodes of mental illness but who are not yet well enough to leave the hospital. Uses a hospital ward unit as the focal setting, and stresses the roles of the nurse, aide, and physician.

Preface to a life (Motion picture) U. S. Public Health Service in cooperation with U. S. Office of Education, 1950. Made by Sun Dial Films.

22 min., ed., b&w, 16 mm. (Psychiatric Study Series)
With discussion guide.
Summary: Parental influence on a child's developing personality. Illustrates by a series of episodes showing the effects of an overly solicitous mother and an overly demanding father; and, in contrast, the healthy childhood resulting when both parents accept their child as an individual.

Progressive hepatolenticular degeneration (Motion picture) S. Philip Goodhart and Benjamin Harris Balser, 1944.

16 min., ed., b&w, 16 mm. (Neuropsychiatric Disorders Series)
With manual. Neurological cinematographic atlas, by S. P. Goodhart and B. H. Balser.

Summary: Presents patients showing the various neurological signs of this rare hereditary disease. For professional groups only. Includes in the cinematographic atlas.

Psychoneuroses (Motion picture) S. Philip Goodhart and Benjamin Harris Balser, 1944.

20 min., ed., b&w, 16 mm. (Neuropsychiatric Disorders Series)
With manual. Neurological cinematographic atlas, by S. P. Goodhart and B. H. Balser.
Summary: Presents patients showing signs and symptoms of a variety of psychoneuroses, but who also show clinical syndromes seemingly syndromic nature, but who also show clinical syndromes seemingly syndromic nature. Consider differential diagnosis. For professional groups only.

A psychoneurosis with compulsive trends in the making (Motion picture) Margaret E. Fries, 1947; produced 1948.

55 min., ed., b&w, 16 mm. (Psychiatric Study Series)
With instructor's guide.
Summary: A case record of a girl from birth to puberty, demonstrating the dynamic interaction between the child and her environment. Illustrates the parents' and showing the limiting effect of the child's environment on her personal development. For psychiatrists, psychologists, psychiatric social workers, students of medicine and graduate psychology, pediatricians, child psychiatrists and nurses in public health.

Retire to life (Motion picture) Oklahoma State Dept. of Health. Made by the University of Oklahoma. Released by International Film Bureau, 1952.

22 min., ed., b&w, 16 mm.
Summary: Illustrates incidents in the life of a retired man who is unable to adjust to life after retirement and who is unable to adjust to life after retirement.

Role-playing in guidance (Motion picture) Motion Picture Division, Dept. of Theater Arts, University of California at Los Angeles. Released by Educational Film Sales at Los Angeles, 1953.

14 min., ed., b&w, 16 mm.
Based on case materials reported in Action counseling and process counseling, a psychodrama approach by Robert D. Hawk.
Summary: Shows how role-playing is introduced by the teacher. Illustrates how the role-playing situation is conducted, what techniques can be used to vary the effectiveness of the training, and how an auxiliary helper can be introduced.

MEDICINE—Psychology

Rx attitude (Motion picture) U. S. Veterans Administration, 1952.

18 min., ed., b&w, 16 mm. (Professional medical films series)
Summary: Portrays through dramatized situations and case histories various mental disorders experienced by soldiers during training and combat resulting from mild anxiety states to severe depressive affect and combat reactions. Illustrates the life patterns of each reaction and presents the early clinical and environmental factors that lead to the development of the disorder, including emotional, cultural, neuroanatomy, hypnosis, suggestion, and group therapy. Makes the point that in terms of mental health, no one is either "black" or "white"; everyone is a "shade of gray."

Shades of gray (Motion picture) U. S. Dept. of the Army, 1948.

60 min., ed., b&w, 16 mm. (Professional medical films series)
Order no. PMP 6047.
Summary: Portrays through dramatized situations and case histories various mental disorders experienced by soldiers during training and combat resulting from mild anxiety states to severe depressive affect and combat reactions. Illustrates the life patterns of each reaction and presents the early clinical and environmental factors that lead to the development of the disorder, including emotional, cultural, neuroanatomy, hypnosis, suggestion, and group therapy. Makes the point that in terms of mental health, no one is either "black" or "white"; everyone is a "shade of gray."

Somatic consequences of emotional starvation in infancy (Motion picture) Rene A. Spitz, M. D., 1948.

30 min., ed., b&w, 16 mm. (Studies—Problems in Infancy Series)
Summary: Compares age for age between behavior of healthy children, and that of institutionalized children; effects of emotional deprivation upon institutionalized children, resulting in extreme bodily retardation, progressive mental deterioration, and lowered resistance to disease.

Somatic endocrine types (Motion picture) S. Philip Goodhart and Benjamin Harris Balser, 1944.

20 min., ed., b&w, 16 mm. (Neuropsychiatric Disorders Series)
With manual. Neurological cinematographic atlas, by S. P. Goodhart and B. H. Balser.
Summary: Demonstrates diaphanous dwarfism, acromegaly, gigantism, pituitary hypoplasia, hypopituitarism, hypothyroidism, hyperthyroidism, Addison's disease, Cushing's disease, and other endocrine disorders. Includes in the cinematographic atlas.

MEDICINE—Psychology

Abortive behavior as an alternative for the neurotic attack in the rat (Motion picture) Norman Raymond Frederick Maier, 1953. Released by Psychological Cinema Register, Pennsylvania State University.

14 min., ed., b&w, 16 mm.
Summary: Shows that certain animals, when induced to exhibit abortive response to a situation of frustration, cease to exhibit violent abortive response to a situation of frustration, making learning possible. When the response is learned, the animal again exhibits a violent form of abortive response.

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MEDICINE—Psychology

Don't get angry (*Motion picture*) Encyclopædia Britannica
Films, 1952

Summary: Explains that anger is a natural and universal emotion and discusses ways for a child to release his anger in a socially appropriate manner. Animated sequences are used to demonstrate the effects of anger on the organs of the body.

Another issue. b&w.

Dynamics of an experimental neurosis. Part I: Conditions feeding behavior and induction of experimental neuroses in cats (*Motion picture*) Jules H. Masserman, 1944. Released by Psychological Cinema Register, Pennsylvania State University.

Summary: Shows an apparatus for releasing pellets of food into foodbox, and cats being trained to respond to a light or a bell signal by going to the food box, lifting the lid, and obtaining the food. Motivational conflict is then induced by a blast of air as the cat is obtaining food. Shows results of the experiment: inhibition of feeding, other inhibitions, sensory hyperesthesiae, specific phobias, motor disturbances, recurrent physiological signs of anxiety, and other neurotic patterns.

Dynamics of an experimental neurosis. Part II: Effects of environmental frustrations and intensification of conflict in neurotic cat (*Motion picture*) Jules H. Masserman, 1944. Released by Psychological Cinema Register, Pennsylvania State University.

Summary: Contrasts various types of environmental frustration with those produced by experimental conflict. Shows that increased hunger drive, or constraining the reactive field of an animal barriers differing in frustration value, accentuates neurotic behavior but if the animal resolves the impasse or escapes from the situation many symptoms are alleviated.

Dynamics of an experimental neurosis. Part III: Experimental diminution of neurotic behavior in cats (*Neurotic picture*) Jules H. Masserman, 1044. Released by Psychological Cinema Register, Pennsylvania State University. 10 min., 16 mm., B&W, 18 mm.

Summary: Demonstrates four therapeutic techniques: diminution of one of the conflicting drives (animal is fed before being put in cage); retarding the aversive situation (positive handfeeding and reassurance); environmental press (animal with maximally informed hunger drive is brought toward food by a movable barrier); and a final example of the last technique (animal learns to feed as signal is placed in the cage with a neurotic animal).

Dynamics of an experimental neurosis. Part IV: Active participation in establishing more satisfactory adjustment (*Motion picture*) Jules H. Masserman, 1944. Released by Psychological Cinema Register, Pennsylvania State University.

Summary: Presents the therapeutic technique of actively participating in establishing a satisfactory adjustment. Normal animals learn to activate a food signal by pressing switches, show various emotional behaviors when constrained by barriers or thwarted by the failure of switches, and recover the habit when the original situation is restored. When subjected to an air blast, develop mild neuroses; some, at first avoiding the switch, gradually explore until they re-establish the self-signaling and feeding patterns, revertions of the blast.

Source: *Author's calculations*.

MEDICINE—Psychology

Frustration and fixation (Motion picture) Robert S. Feldman, P. Elkes and Hollis H. Barrett, 1951. Released by Psychological Cinema Register, Pennsylvania State University.

10 min., ed., b&w, 16 mm.

Summary: Documents Malt's thesis that frustration leads to fixation and later to neurotic symptoms. Shows a modified Lashley jumping apparatus and describes the process of teaching rats to jump. Portrays the successful solution of a solid problem, and typical frustration responses to insoluble problems: refusal, escape, stereotyped choice. Frustrated animals finally respond to soluble problems present in situations in spite of open correct doors, and although waiting trials demonstrate that they know the correct choice. Includes demonstrations of catatonic and neurotic behavior.

Frustration play techniques (Motion picture) Child Study Department, Vassar College. Released by New York University Film Library, 1946.

2-40 min., ed., b&w, 16 mm. (Series on normal personality development)

With guide and explanatory notes.
Summary: Demonstrates projective techniques developed by Dr. Eugene Lerner of Sarah Lawrence College for the study of ego development and the detection of the self in young children. Shows two situations in which the experimenter presents obstructions to the children's play in order to observe characteristic reactions in behavior response. Frustration and hostility games reveal how the child responds to a series of frustrations. Explains the theory and demonstrates the technique using several widely differing types of children.

Genesis of emotions (Motion picture) Rene A. Spitz, M. D., 1948.

30 min., ed., b&w, 16 mm. (Studies—Problems in Infancy Series)

Summary: How infant develops interest during first months; differentiation of first positive emotions from this interest shown by smiling responses in children ranging from two to six months; factors operative in smiling response. Differentiation of negative emotions in four-month-old child; negative emotion's preponderant role between eighth and twelfth months; development of older children's role of negative emotion in process of environmental discrimination. Wide range of emotions developed by end of first year.

Grasping (Motion picture) Rene A. Spitz, M. D., 1948.

30 min., ed., b&w, 16 mm. (Studies—Problems in Infancy Series)

Summary: Experimental study of development of grasping pattern; grasping as sequence in which motor skills interest progressively with psychological development; contrast with clenching reflex.

Growth: A study of Johnny and Jimmy (Motion picture) International Film Bureau, Inc., 1940.

43 min., ed., b&w, 16 mm.

Summary: Twin study of motor development in three areas. Illustration of exercises on development of each motor function at each age level; comparative behavior during first two years, when twins were subjects of special investigation; and during following six years. Complex interdependence of practice and maturation in development.

Growth of infant behavior; early stages (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1954.

11 min., ed., b&w, 16 mm. (Growth film series)
Summary: Produced with the cooperation of Yale Clinic of Child Development. Traces the rapid growth of early infant behavior patterns. Contrasts typical infant reactions at various ages by means of terms. Cinematic technique allowing the study of two different pictures simultaneously on the screen. Selects scenes depicting typical and natural infant behavior. Animated diagrams describe characteristics of infant psychological growth.

The growth of infant behavior, later stages (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1954.

10 min., ed., b&w, 16 mm. (Growth film series)
Summary: Repeats the increasing ability of the growing infant to use his hands in manipulating objects. Portrays the delicate and predictable stages by which the hand grows from an almost useless appendage to a dexterous and sensitive instrument of the human will. Animated drawings illustrate the growth of the prenatally hand.

A guidance problem for school and home (Motion picture) Bureau of Publications, Teachers College, Columbia University, 1945.

40 min., ed., b&w, 16 mm.

With teacher's manual.
Summary: Demonstrates the need for an understanding of child behavior by both parents and teachers in order to help the child to normal growth; and portrays a teacher's approach to individual parent-teacher conference.

Head of the house (Motion picture) U. S. Information Agency, 1953. Made by Mental Health Film Board. Released for public educational use in the United States through U. S. Office of Education, 1954.

40 min., ed., b&w, 16 mm.

Summary: Describes the emotional problems of a young boy, his rebellion against parental authority, particularly his father's repression and discipline, and his gradual development into a potential provider and defender. Shows the satisfaction of a community social worker and neighborhood welfare worker in bringing about development of better understanding between father and son. Shows American spirit of public service and community concern for child welfare. Prepared for screen use.

—Another issue. 35 min.

Helping the child to accept the Do's (Motion picture) Encyclopedia Britannica Films, 1948.

11 min., ed., b&w, 16 mm. (Personality development series, 3)

With teacher's guide.
Summary: Portrays the child learning to live in a world defined by the Do's and the different attitudes influenced by the parent to which the Do's are accepted. Illustration, with life situations, the types of Do's the child must learn to accept: (1) the Do's for personal living, (2) the masculine and feminine Do's, and (3) the Do's for human relations. For high school, college, and adult groups.

Helping the child to face the Don't's (Motion picture) Encyclopedia Britannica Films, 1948.

11 min., ed., b&w, 16 mm. (Personality development series, 2)

With teacher's guide.
Summary: Repeats how the young child meets a world of Don't's and how he meets by conforming to his own distinctive ego, thus forming his own individual personality. Classifies the Don't's as (1) those which protect the child from danger; (2) those which restrain him from taking things that belong to others; and (3) those which teach him to respect the rights of others. For high school, college, and adult groups.

Heredity and family environment (Motion picture) McGraw-Hill Book Company, Inc., 1954.

9 min., ed., b&w, 16 mm.

Heredity and pre-natal development (Motion picture) McGraw-Hill Book Co., 1950. Produced by Crawley Films, Ottawa.

21 min., ed., b&w, 16 mm. (Child development series, no. 2)

Supplementary filmstrip of the same title also available. Correlated with the book Child development, by Elizabeth H. Hurlock.
Summary: Describes the growth, maturation, and action of male and female sex cells; fertilization of the ovum by sperm cell; and the prenatal development of an offspring. Considers the development of the basic physiological actions of breathing, eating, and elimination in a newborn child; and stresses the close connection between physical and emotional sensitivity in very young children.

How to give and take instructions (Motion picture) Corcoran Instructional Films, 1951.

10 min., ed., b&w, 16 mm.

Summary: Arrangements for class picnic illustrate need for effective communication of instructions. Basic rules for giving instructions: be clear, know the steps in order, use effective methods, repeat immediately, check in action.
—Another issue. color.

Human beginnings (Motion picture) Eddie Albert Productions, 1950.

22 min., ed., color, 16 mm.

Summary: Shows what a group of 6-year-old children believe about the origin of human life as represented in the arm development and their varying attitudes toward the advent of a new baby in the family. (Fertiny) have come from the reception of a baby sister, parent him for the new situation, reacts to the coming of a baby sister.

The human brain (Motion picture) Encyclopedia Britannica Films, 1955.

11 min., ed., b&w, 16 mm.

With film guide.
Summary: Dramatized incidents and animated sequences are used in describing the thinking process and showing the structure and functions of the different parts of the brain. Follows the steps involved in the thinking process from the reception of stimuli by the sense organs to the directed motor response.

Huntington's chorea (Motion picture) Max Rossmann, 1953. Released by Psychological Cinema Register, Pennsylvania State University.

11 min., ed., b&w, 16 mm.

Summary: Presents two first cousins and a paternal uncle in one family, and two sisters in another family, to show motor characteristics of the disease, Huntington's chorea. Shows involuntary movements, standing posture, attempts at handwriting, gait and dance movements, a stairway, hand and finger restlessness, and uncontrollable facial expressions. For medical profession and allied groups.

Hypnotic behavior (Motion picture) Hartley Productions, 1949.

24 min., ed., b&w, 16 mm.

With exhibitors booklet.
Summary: A demonstration of the induction of hypnotic trance, eye and arm catalepsy, abnormal sensory situations, trypic awakening, and psychokinetic phenomena and psychokinetic suggestion. For students of psychology and medicine, psychiatric nurses, psychiatric social workers, psychiatrists, psychologists, psychoanalysts.

I am alcoholic (Motion picture) McGraw-Hill Book Company, Inc., 1948.

18 min., ed., b&w, 16 mm.

Imitation in a home-raised chimpanzee (Motion picture) Keith J. Hayes and Catherine Hayes, 1951. Released by Psychological Cinema Register, Pennsylvania State University.

17 min., ed., b&w, 16 mm.

Summary: Shows Viki, a home-raised chimpanzee who had previously received tuition in vocalization, at the ages of 20 to 30 months in a variety of imitative activities: making gestures, hammering, blowing whistles, opening food tins, etc. In some cases a delay is involved before imitation is permitted. Shows problem-solving behavior.

Impairment of the abstract attitude as shown on the stick test (Motion picture) Kurt Goldstein and Martin Scherer, 1950. Released by Psychological Cinema Register, Pennsylvania State University.

9 min., ed., b&w, 16 mm.

Summary: A male adult patient with a gunshot lesion in the frontal lobe is tested by a blackboard adaptation of the stick test. Shows that the patient can copy mazes and designs directly, but cannot reproduce them from memory. A sketch of a curved object (hook) is memory the patient can reproduce inverted "v" because it looks like the hook of a hook. Patient can also reproduce the multiplication sign which is very well known to him.

Importance of goals (Motion picture) McGraw-Hill Book Co., 1950. Produced by Audio Productions.

10 min., ed., b&w, 16 mm. (Educational psychology series, no. 3)

Supplementary filmstrip of the same title also available. Correlated with the book Psychology in education, by Herbert Brownson.
Summary: Explores the principle that all education is essentially a process of attaining basic, intellectual goals. Shows how having something to work toward helps to create eager and interested students.

Individual differences (Motion picture) McGraw-Hill Book Co., 1950. Produced by Audio Productions.

22 min., ed., b&w, 16 mm. (Educational psychology series, no. 3)

Supplementary filmstrip of the same title also available. Correlated with the book Psychology in education, by Herbert Brownson.
Summary: Explains that individual differences must be recognized, and emphasizes the importance of shaping education to meet the needs of the pupils.

Intelligence of white rats (Motion picture) Norman Raymond Frederick Maier, 1953. Released by Psychological Cinema Register, Pennsylvania State University.

10 min., ed., b&w, 16 mm.

Summary: Original experiments photographed at the University of Berlin, show a white rat in an elevated state in a situation requiring the combining of past experience to solve problems created by breaks in the continuous pathway.

MEDICINE—Psychology

MEDICINE—Psychology

Teamwork (Action picture) Simmel-Metecorvey. Released by Instructional Films, 1947.

22 min., ed. 16 mm. (Cooperation and human relations.)

Showings: Illustrates six means by which cooperation is achieved, based on instructional fundamentals developed by the Carnegie Committee on Scientific Aids to Learning. Shows good and bad means of obtaining cooperation among high school students who are planning a dance, teaching leadership, democratic cooperation, compromise, bargaining, and group decision-making.

A thirty-six weeks behavior day (*Motion picture*) Erpi
Picture Consultants (later name Encyclopaedia Britannica
Films) 1934.
10 min., sd., b&w, 16 mm. (Gessell film series)
Produced with the cooperation of Yale Clinic of Child Development.
Summary: Traces a day's activity for a baby of thirty-six weeks.
Depicts the first successful attempts at creeping by showing the infant
trying to reach and seize a bell on the floor. Interprets the response
at this age to attentions by the parents, and offers comment on the
psychological implications of these reactions.

Vision with spatial inversion (*Motion picture*) N. H. Pronko and F. W. Snyder, 1951. Released by Psychological Cinema Register, Pennsylvania State University. 18 min., st., b&w, 16 mm.

Summary: Presents an experiment in which the subject wears inverting spectacles continuously for several weeks. Shows that initial difficulties in orientation, walking, eating, writing and card sorting gradually dissipate as the subject becomes accustomed to an "upside-down" world.

Why can't Jimmy read? (*Motion picture*) Syracuse University Audio-Visual Center. 1950.
15 min., sd., b&w, 16 mm.
Summary: Through the story of a 9-year-old boy's reading difficulties, shows typical procedures used in the diagnosis of reading problems, and emphasizes the valuable services that can be performed by a reading laboratory working with parents and teachers.

MEDICINE—Psychology

Willie and the mouse (Motion picture) Metro-Goldwyn-Mayer. Released for educational purposes by Teaching Film Distribution, 1946.

11 min., sd., b&w, 16 mm. (Passing parade series)

Summary: Presents a constructive study to illustrate the importance of the learning process with laboratory mice having limitations in educational procedures in the classroom. Shows that mice learn by sight, smell, and touch, and explains the necessity for a variety of innovations in the teaching of children.

MEDICINE—Public Health

A day to remember (Motion picture) U. S. Information Agency, 1953.

10 min., sd., b&w, 16 mm.

Summary: Describes the visit of a circus to New York City's Bellevue Hospital, circus scenes, and the children's reactions to the show. Points up the care and attention given the handicapped by the public and private agencies in the United States.

Half chance (Motion picture) U. S. Information Agency.

10 min., sd., b&w, 16 mm.

Summary: Through dramatic story of illness, recovery and rehabilitation of young rheumatoid fever victim, film depicts community action in protecting welfare of American children. Shows coordinated assistance and activities of local, state and federal public health services. Demonstrates how school health program operates; shows role of State Health Department and U. S. Children's Bureau. Stresses U. S. aim to increase availability of such services so that every child can enjoy the full chance that good health gives.

Guardians of our country's health (Motion picture) Frith Films, 1954.

10 min., sd., color, 16 mm.

With study guide. Summary: Presents the work of U. S. Public Health Service doctors and quarantine inspectors in the protection of our country's health by preventing the spread of disease by persons entering the country. Includes scenes of the actual inspection of passengers and crew on ships entering the harbor, on planes at port of entry, and at border stations. For upper elementary and secondary school grades.

Mr. Williams wakes up (Motion picture) North Carolina State Board of Health, 1945. Made by Southern Educational Film Production Service.

20 min., sd., b&w, 16 mm.

Summary: Explores the work of a local health department. An average North Carolinian discovers his health department, is taken to a local health center, and learns what a health department means to the local community. Explains why public health is a state-wide problem and how it must be interpreted as a state-wide health to protect all the people in all areas of the state.

Another issue. 33 min.

Nephrosis in children (Motion picture) Pfizer Laboratories, Chas. Pfizer & Co. for Medical Advisory Board, National Nephrosis Foundation. Made by Campus Film Productions. Released by Film Library, Pfizer Laboratories, 1954.

18 min., sd., color, 16 mm.

With supplemental printed notes. Summary: To assist the practitioner in recognizing childhood nephrosis during its insidious onset, discusses diagnostic features, clinical and laboratory findings, course of the disease, major principles of management, complications, and prognosis. For the medical profession.

Report to the people (Motion picture) Dairy Council of St. Louis in cooperation with the Health Dept. of St. Louis County, 1948. Made by Hardcastle Films.

15 min., sd., color, 16 mm.

Endorsements. With study guide. Summary: Describes the health department as an educational organization serving a large community. Shows how the various health department services assist a typical family—the public health nurse gives the mother, a prenatal patient, simple specific nutrition information; the children go to a well-child conference for periodic checkup and preschool examination; the public health engineer checks the health conditions at the father's plant and helps the school administrator plan the layout for a lunchroom.

Starting line (Motion picture) Virginia State Health Dept. in cooperation with the Children's Bureau, Federal Security Agency. Made by Southern Educational Film Production Service. Released by International Film Bureau, 1948.

20 min., sd., b&w, 16 mm.

Summary: Dramatizes, in a case, the specialized care, offered by a small Illinois hospital with the aid of the State Department of Health, for premature babies from birth until their achievement of normal physical development.

Unsuspected (Motion picture) National Tuberculosis Association, 1953. Produced by Trifid Films. © National Tuberculosis Association; 25Jan53 (in notice: 1951); MP5042.

20 min., sd., b&w, 16 mm.

Summary: Tells about the discovery of unsuspected cases of tuberculosis. Shows how community health agencies assist in the rehabilitation of patients and in aiding the families of tubercular patients to solve their problems.

Wellon (Motion picture) University of Washington, 1950.

29 min., sd., color, 16 mm.

Summary: How people of a town suffering consequences of unsanitary conditions and poor community "house-keeping" rallied to undertake and support proper public health policy.

Your health center (Motion picture) U. S. Institute of Inter-American Affairs, 1947. Produced by Apex Film Corp.

8 min., sd., color, 16 mm.

Summary: Describes the services available in a health center and explains the importance of these services in the prevention of disease and the protection of the health of the community.

MEDICINE—Rehabilitation

Be your age (Motion picture) Metropolitan Life Insurance Co., 1947. Made by Jam Handy Organization.

12 min., sd., b&w, 16 mm.

Summary: The story of a middle-aged, overweight man's recovery from a heart attack and his adjustment to living with a handicapped heart. X-ray motion picture shows how the normal heart beats and why doctors advise plenty of sleep and rest to protect the middle-aged healthy heart as well as the sick heart.

Canine eyes for the blind (Motion picture) Thine Crown Productions. Released by Hollywood Film Enterprises, 1945.

11 min., sd., color, 16 mm.

With study guide. Summary: An account of seeing-eye dogs. Describes the origin of these dogs as guides for the blind, and depicts their training at a typical event, exact training center.

Another issue. b&w.

Comeback (Motion picture) U. S. Office of Vocational Rehabilitation, 1951. Produced by Pictorial Research; revised by Unifilm.

20 min., sd., color, 16 mm.

Revised of 1948 film with same title. Summary: Shows in detail the rehabilitation of a disabled amputee and, in lower detail, the rehabilitation of a psychiatric patient, a tubercular individual, and others, into steady and self-supporting employment.

Conquering darkness (Motion picture) Emerson Yorks Studio, 1946.

18 min., sd., b&w, 16 mm.

Diary of a sergeant (Motion picture) U. S. War Dept., 1945. Released for public educational use through U. S. Office of Education, 1949.

22 min., sd., b&w, 16 mm.

Order no. 31125. Summary: Traces the treatment of an amputee in an army hospital and his rehabilitation, including his skilled manipulation of artificial arms and hands.

Another issue. 35 min.

Dynamic physical conditioning (Motion picture) U. S. Dept. of the Army, 1948.

11 min., sd., b&w, 16 mm.

Order no. FMH 400. Summary: Physical conditioning in a military hospital. Shows physical and occupational therapy and various methods of physical conditioning, including calisthenics work, games, swimming, etc.

Another issue. 35 min.

MEDICINE—Rehabilitation

Establishing working relations for the disabled worker (Motion picture) U. S. Office of Education with the cooperation of U. S. Office of Vocational Rehabilitation, 1946. Produced by Carvel Films.

14 min., sd., b&w, 16 mm. (Problems in supervision series)

Order no. 08 401.

With instructor's manual. Summary: Dramatized case study of workers being overly solicitous of a new unskilled laborer, of his resentment at being considered a "weak," and of the supervisor's successful handling of the situation.

Eyes that hear (Motion picture) Lexington School for the Deaf, 1946. Made by Campus Film Productions.

17 min., sd., b&w, 16 mm.

Summary: Presents the problems confronted by the parents of a deaf child. Shows how, at the Lexington School for the Deaf, deaf children are trained in understanding, to communicate, and to become adjusted and useful persons.

Half a chance (Motion picture) U. S. War Dept., 1946. Released for public educational use through U. S. Office of Education, 1949.

10 min., sd., b&w, 16 mm.

Order no. 31124. Summary: Study of the successful orthopedic rehabilitation and personal psychological adjustment of an amputee.

Another issue. 35 min.

Handicapped go camping (Motion picture) State College of Washington, 1950. Made by Calrin Co.

9 min., sd., color, 16 mm.

Summary: Describes the activities and underlying philosophy of an experimental summer camp for handicapped children. Shows the handicapped children, living, working, and playing with normal children in a democratic society of their own.

Institutions (Motion picture) Progressive Pictures, 1951.

21 min., sd., b&w, 16 mm.

Summary: Operations and services of correctional and mental institutions. How prisoners are treated; what is expected of them; opportunities provided for rehabilitation. Activities and program of correctional schools for both boys and girls. Mental hospitals and care of mentally ill; the "Snake Pit" type of mental institution compared with modern mental hospitals. Major types of mental illness defined; various types of therapy now in use.

Instructing the disabled worker on the job (Motion picture) U. S. Office of Education with the cooperation of U. S. Office of Vocational Rehabilitation, 1946. Produced by Carvel Films.

14 min., sd., b&w, 16 mm. (Problems in supervision series)

Order no. 08 400.

With instructor's manual. Summary: Dramatized instances of poor and good instruction of disabled workers, and how in the latter case, a one-armed worker learns successfully to operate a drill press.

MEDICINE—Rehabilitation

Journey back (Motion picture) U. S. Veterans Administration, 1949.

20 min., sd., b&w, 10 mm.

Summary: Dramatized story of the rehabilitation of a hemiplegic patient, demonstrating the work of physical occupational, recreational, and speech therapists and their contribution to the recovery of the patient.

—Another issue. 35 mm.

The Kessler Institute for Rehabilitation (Motion picture) Kessler Institute for Rehabilitation, 1951.

16 min., sd., color, 16 mm.

Summary: Overall view of integrated rehabilitation center; interrelationships among medical specialists, nurses; therapists, vocational counselors, social workers and limb and brace makers.

Let me see (Motion picture) University of Southern California, 1953.

20 min., sd., color, 10 mm.

Kodachrome: Study of the training of a four-year-old girl who is blind. Reveals the role of parents in the training process and shows how the handicapped child should be treated. Explains that a blind child can become a useful member of society with the help of parents, teachers, and scholars.

Listening eyes (Motion picture) Walt Disney Studios and University of Southern California, 1947.

18 min., sd., color, 10 mm.

Summary: Shows the methods employed in teaching deaf children to speak and to understand; dramatizes the problems of parent, teacher, and child.

—Another issue. 35 mm.

Living with limitations (Motion picture) U. S. Veterans Administration, 1949. Made by U. S. Dept. of Agriculture.

20 min., sd., b&w, 10 mm.

Summary: Explains how three veterans suffering from arthritis, heart condition, and a trick knee, respectively, are returned to health through aid of the Veterans Administration; how VA physical, occupational, and educational therapists work cooperatively; and how the patients are helped through recreational rehabilitation in finding jobs suited to their physical limitations.

The long cane. Part 1: Indoors (Motion picture) U. S. Veterans Administration, 1954.

32 min., sd., b&w, 10 mm.

Summary: Covers the problems of veterans who lose their sight following discharge from the service. Demonstrates therapeutic methods in general and specific techniques of foot travel, including use of a cane, physical restraining for mobility within the hospital, and preparation for advanced therapy.

The long cane. Part 2: Outdoors (Motion picture) U. S. Veterans Administration, 1954.

33 min., sd., b&w, 10 mm.

Summary: Shows the therapy given blinded veterans in techniques of foot travel outside the hospital in uncontrolled areas, both residential and business, including use of the cane, sound detection, and problems related to public attitudes.

Meet McConnell (Motion picture) U. S. War Dept., 1944.

12 min., sd., b&w, 16 mm.

Order no. MP 856.
Summary: Presents the story of Charles McConnell, an amputee who became a successful business executive, to show how well a man with two artificial arms can get along.

—Another issue. 35 mm.

Mental hospital (Motion picture) Oklahoma State Dept. of Health. Made by University of Oklahoma in cooperation with the Central State Hospital and the Oklahoma State Dept. of Mental Health. Released by International Film Bureau, 1952.

20 min., sd., b&w, 10 mm.

Summary: Documents the day-to-day story of a mental patient from hospital admission to discharge; shows the patient's progress from hostility and depression to reasonable life adjustment through the efforts of a mental rehabilitation team.

My child is blind (Motion picture) U. S. Dept. of the Army, 1951. Produced by Unity Films. Released for public educational use through U. S. Office of Education, 1952.

22 min., sd., b&w, 10 mm.

Summary: Shows how a blind child, given special training at a school for blind children, can be taught to do many things that normal children do. Prepared for use in occupied areas.

—Another issue. 35 mm.

Occupational therapy in problems of motion (Motion picture) U. S. Dept. of the Army, 1950.

23 min., sd., b&w, 10 mm.

Order no. PMP 5116-b.
Summary: Portrays conditions involving joint limitation, muscle weakness, and lack of coordination, with occupational therapy for each condition. For professional personnel.

—Another issue. 35 mm.

On our own (Motion picture) National Foundation for Infantile Paralysis, 1949. Produced by RKO-Pathé, with the cooperation of the New York State Rehabilitation Hospital.

11 min., sd., b&w, 16 mm.

Summary: A survey of physical rehabilitation techniques for children and adolescents disabled by poliomyelitis. For general public, physiotherapists, medical students and practitioners, nurses, social workers.

Out of the shadows (Motion picture) University of Southern California, 1950.

30 min., sd., b&w, 16 mm.

Summary: Describes the work of the Los Angeles County Spastic Children's Foundation. Explains the nature of cerebral palsy, shows processes of training the child victims of the disorder, and discusses methods of therapy.

Pay attention: problems of hard of hearing children (Motion picture) Dept. of Child Study, Yassar College. Released by New York University Film Library, 1949.

30 min., sd., b&w, 16 mm.

Summary: Presents the problems of parents and teachers of children with impaired hearing; and demonstrates methods for lip reading, and the use of hearing aids in child adjustment.

Physical rehabilitation (Motion picture) Film Originals, 1953.

28 min., sd., color, 16 mm.

Kodachrome.
Summary: Demonstrates methods and techniques used at the Idaho State Rehabilitation Home to help handicapped persons perform normal activities. Emphasizes steps in rehabilitation from bed exercises to advanced ambulation.

Prescription for work (Motion picture) U. S. Veterans Administration, 1949.

10 min., sd., b&w, 10 mm.

Supplemented by a series of 12 films released in 1949 with the title, Light mechanics series.
Summary: Explains the light mechanics procedure by means of which the work capacities of patients with physical disabilities are determined, and illustrates the procedure in the case of a patient with pulmonary tuberculosis who is retrained to a job within the limits of his endurance.

17 min., sd., color, 16 mm.

Prosthesis: Ocular replacement (Motion picture) U. S. Dept. of the Navy, 1948. Produced by Audio Productions. Released for public educational use through U. S. Office of Education, 1948.

17 min., sd., color, 16 mm.

Order no. NAV 6201-b.
Summary: Demonstrates how to take a wax impression, make a master cast, and wear glasses; duplicate the pattern in acrylic resin; create the iris; and polish the eye. For medical personnel.

Recovery (Motion picture) Committee for the Care of the Jewish Tuberculous (later named Altro Health & Rehabilitation Services) 1917. Made by Campus Film Productions.

15 min., sd., color, 10 mm.

Summary: Describes the recuperation of former tuberculosis patients toward a normal life, by following an average day in the life of a man at the Altro West Slope rehabilitation center which provides medical work under medical supervision.

MEDICINE—Rehabilitation

Recreational and occupational therapy (Motion picture) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Ted Nemeth Studios.

13 min., sd., b&w, 16 mm. (Nursing series)
Order no. OE 115.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Recreational and occupational activities fitted to the patient's condition; positive direction during an amiable state; limited physical activities carried on in bed; individualized occupational therapy; and social recreation projects.

—Another issue. 35 mm.

Rehabilitation of chronic neurological cases (Motion picture) U. S. Veterans Administration, 1947.

20 min., sd., b&w, 10 mm.
Summary: Explains the rehabilitation program at the Veterans Administration Hospital in Minneapolis by following a patient through the entire rehabilitation course and observing the development and characteristics of the program. Primarily for professional and administrative groups.

Rehabilitation of patients with clefts of lip and palate (Motion picture) State University of Iowa, 1953.

36 min., sd., color, 16 mm.
Summary: Animated illustration and live cases demonstrate etiology, evaluation and treatment of patients' presenting clefts of lip and/or palate. Clinical approach of medical and related services in total rehabilitation program at the State University of Iowa.

The right to hear (Motion picture) The Dept. of Otolaryngology and Oral Surgery in cooperation with Dept. of Speech, State University of Iowa, 1943. Released by Bureau of Visual Instruction, Extension Division, State University of Iowa.

31 min., sd., color, 10 mm.
Summary: Presents a school child who is handicapped by impaired or total loss of hearing, and explains the special problems of education and personal adjustment, including the use of hearing aids and instructions in lip reading.

Second sight (Motion picture) RKO Pathé, 1922.

10 min., sd., b&w, 35 mm.
Summary: Describes the work of the Guide Dog Foundation at Southbury, Conn. Long Island, in the training of blind persons and seeing-eye dogs. Demonstrates through the experience of a blind man how dog and master learn to work together.

The Seeing Eye (Motion picture) Educational Films Corp. of America, 1936. Released by Sibbo Productions and for educational purposes by Teaching Film Custodians, 1939.

21 min., sd., b&w, 10 mm. (Treasure chest series)

Summary: The story of the work of Seeing Eye, Inc. at Merriamtown, N. J. where German sleep dogs are trained to lead the blind.

Seizure: The medical treatment and social problems of epilepsy (Motion picture) U. S. Veterans Administration, 1951.

46 min., sd., b&w, 16 mm.
Summary: Explains the diagnostic and therapeutic treatment of epilepsy through a dramatized story of an epileptic veteran, the development of his condition, and his treatment in a Veterans Administration hospital. Describes the physiological basis of epilepsy, clinical manifestations of common types of seizures, and socio-economic problems facing an epileptic.

—Another issue. 35 mm.

MEDICINE—Rehabilitation

The sky is the limit (Motion picture) U. S. War Dept., 1910.

12 min., sd., color, 16 mm.

Order no. MP 1210.

Summary: Shows the rehabilitation of an above-the-knee amputee. Compares the walking technique of an individual with two normal limbs with that of an amputee.

Social adjustment for the aphasic patient (Motion picture) U. S. Veterans Administration, 1950. Made by Churchill-Wetler Film Productions.

20 min., sd., color, 16 mm. (Alpha, no. 3)

Summary: Emphasizes the problems of social reorientation encountered by the aphasic patient, and explains the use and importance of group therapy and of corrective physical therapy, extending to the language function, and contacts outside the hospital environment. For medical personnel.

Social adjustment of the blinded soldier (Motion picture) U. S. War Dept., 1946. Released for public educational use through U. S. Office of Education, 1950.

20 min., sd., b&w, 16 mm.

Order no. PMP 2005.

Summary: Shows some of the methods used in helping blinded soldiers become adjusted to their handicap, including training in avoiding obstacles while walking, determination of vocational aptitudes, training for specific jobs, and recreational experiences. Primarily for U. S. Army personnel engaged in rehabilitation programs.

Another issue. 35 min.

Speech reading (Motion picture) U. S. Dept. of the Army, 1952. Released for public educational use through U. S. Office of Education, 1955.

25 min., sd., b&w, 16 mm.

Order no. TFP 6-1704.

Summary: Explains how persons with a hearing loss can learn, by careful interpretation of lip movements, to "see" what people are saying. Shows how vocal and consonant sounds are formed by the mouth.

Another issue. 35 min.

Speech training for the handicapped child (Motion picture) University of Illinois, Division of Services for Crippled Children, in collaboration with the Speech Clinic of the University of Illinois, Rockford College, and the Illinois State Normal University; made 1945.

25 min., sd., color, 16 mm.

Summary: Views the activities in speech education at an institution equipped with diagnostic and therapeutic devices for the treatment of speech problems. Presents cases involving cleft palate, brain injuries especially birth paralysis, congenital and acquired impaired hearing, and miscellaneous pathology.

The story of Lucy (Motion picture) Kessler Institute for Rehabilitation, 1951.

18 min., sd., color, 16 mm.

Summary: Depicts the rehabilitation of a paraplegic woman, from bed to full physical employment, through the team work of rehabilitation specialists in a rehabilitation center.

Swinging into step (Motion picture) U. S. War Dept., 1945. Released for public educational use through U. S. Office of Education, 1950.

23 min., sd., b&w, 16 mm.

Order no. TP 6-2083.

Summary: Shows how amputees are rehabilitated physically and psychologically for a return to normal living.

Another issue. 35 min.

Teaching crutch walking (Motion picture) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Ted Nemeth Studios.

12 min., sd., b&w, 16 mm. (Nursing series)

Order no. OIE 422.

With instructor's manual. Supplementary filmstrip of same title also available. Summary: How to teach the patient to walk in a walker; to learn the various methods of crutch walking—two-point, four-point, and swing-to, to sit, rise, and climb stairs; and the safety factors involved in crutch walking.

Another issue. 35 min.

Three to make ready (Motion picture) Institute for the Crippled and Disabled, 1953.

25 min., sd., color, 16 mm.

Summary: Methods used by Institute for the Crippled and Disabled in carrying out rehabilitation program. Activities of the Institute: physical rehabilitation, vocational training, social adjustment, mental hygiene, sheltered workshop, orthopedic appliance services, final resettlement in outside employment and normal social life.

To hear again (Motion picture) U. S. Dept. of the Army, 1947. Released for public educational use through U. S. Office of Education, 1950.

27 min., sd., b&w, 16 mm.

Order no. PMP 5002.

Summary: Explains and shows examples of the U. S. Army's aural rehabilitation program—testing, treatment, and social rehabilitation, the use of hearing aids and lip reading, and stories of several patients.

Another issue. 35 min.

Toward independence (Motion picture) U. S. Dept. of the Army, 1947. Released for public educational use through U. S. Office of Education, 1950.

30 min., sd., b&w, 16 mm.

Order no. PMP 5005.

Summary: Shows how modern developments in medicine have made it possible for the victims of paraplegia, resulting from spinal cord injury, to become independent, well-adjusted citizens.

Another issue. 35 min.

The twig is best (Motion picture) The Crippled Children's School, 1952.

20 min., sd., b&w, 16 mm.

Summary: Richard (victim of cerebral palsy), his friends, teachers and therapists, at Crippled Children's School, Jamestown, North Dakota.

Upper extremity prosthetics (Motion picture) U. S. Veterans Administration, 1952.

23 min., sd., color, 16 mm.

Summary: Explains the prescription, fabrication, fitting, and handling of artificial arms; shows psychosocial and prosthetic training activities; describes various devices and appliances; and discusses some of the adjustments related to the acceptance and use of artificial arms. For medical personnel.

Visual hearing (Motion picture) Speech and Hearing Clinic, Ohio State University. Made and released by Dept. of Photography, 1948.

30 reels (approx. 6 min. each), sd. at sd. speed, color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: A graded series of lip-reading exercises.

We speak again—the rehabilitation of laryngectomized patients (Motion picture) Massachusetts Eye and Ear Infirmary, 1949. Produced by Sturge-Grunt Productions.

10 min., sd., color, 16 mm.

Summary: An evocative, scientific report on the training of laryngectomized patients in the use of esophageal voice, as practiced at one hospital. For general practitioners, medical students, nurses, public health and social workers concerned with rehabilitation, voice teachers and therapists; also applicable as a morale film, video teaching and therapeutic aid.

You can hear again (Motion picture) U. S. Veterans Administration, 1949.

30 min., sd., b&w, 16 mm.

Summary: Dramatized story of a veteran who finally recognizes his defective hearing, and, through the aural rehabilitation program of the Veterans Administration, learns to compensate for the hearing difficulty and to lead a normal life.

Another issue. 35 min.

MEDICINE—Sanitation

Aedes aegypti control (Motion picture) U. S. Public Health Service, 1916.

18 min., sd., b&w, 16 mm. (Dengue and yellow fever control series)

Order no. 4-611.

With film guide.

Summary: Shows inspection processes to dengue and yellow fever control; describes the habitat and life cycle of *A. aegypti* mosquito; the inspector's work, his equipment, inspection, and report, and the control of the mosquito, including the duties of clean-up and maritime crews, and the location and treatment of heavy foci.

Another issue. 35 min.

Anopheles census: A basic field procedure in setting up malaria control projects (Motion picture) U. S. Public Health Service, 1944.

20 min., sd., b&w, 16 mm. (Malaria control series)

Order no. 4-625.

Summary: An entomologist surveys the prevalence of malaria-carrying mosquitoes in an area, and a suitable state-sponsored control program is initiated. The results are evaluated, and defenses are instituted and remedied.

Another issue. 35 min.

MEDICINE—Sanitation

Cancer education (Motion picture) U. S. Dept. of the Army, 1950. Produced by Media Productions. Released for public educational use through U. S. Office of Education, 1950.

11 min., sd., b&w, 16 mm.

Summary: Shows the operation of a mobile X-ray clinic alerting the townspeople through advance announcement, X-raying citizens, educating them toward self-examination, and checking on all possible cases of incipient cancer. Produced for use in occupied areas.

Another issue. 35 min.

City water supply (Motion picture) Erpi Classroom Films (Inter name Encyclopaedia Britannica Films) 1941.

11 min., sd., color, 16 mm.

With film guide.

Summary: Explains man's dependence on water and explains problems involved in obtaining an adequate and safe city water supply. Illustrative facts, water sources and examines the specific sources available to New York City. Shows the engineering accomplishments available to New York City. Shows modern methods of filtration and disinfection to insure purity. For junior and senior high school and adult groups.

Clean waters (Motion picture) General Electric Co., 1940. Made by Raphael G. Wolff Studios.

20 min., sd., color, 16 mm.

Summary: Portrays the importance of natural waters. Describes the \$100,000,000 annual loss in the U. S. due to water pollution. Shows the dangers of pollution to fish and wild life, city water supply systems, recreational facilities, and public health. Reviews the urgency of preventing this pollution through proper sewage treatment.

Climbing ability of Norway rats (Motion picture) U. S. Public Health Service, 1948.

3 min., sd., b&w, 16 mm.

Order no. 4-627.

Summary: Demonstrates the ability of a Norway rat to climb a slanting sheet metal roof, a burglar guard over a window, and from the burglar guard up a vertical wall and down a ventilator shaft.

Community fly control operations (Motion picture) U. S. Public Health Service, 1952.

12 min., sd., b&w, 16 mm. (Community fly control series)

Order no. 4-624.

Summary: Explains the steps taken in a fly control project in a tropical town, involving gaining the support of the people (education); eliminating fly breeding places (sanitation); and applying spray materials (chemical control).

Community health and you (Motion picture) McGraw-Hill Book Co., 1954. Made by Audio Productions.

10 min., sd., b&w, 16 mm. (Health and safety for you series)

Summary: Correlates with the book Health and safety for you, by Harold S. Deth and Anita D. Latta.

Summary: Shows how the average local health department helps to control the spread of communicable diseases and maintain America's high standard of living by protecting water and food supplies from contamination, by enforcing rigid standards of cleanliness, by insuring proper disposal of refuse, by making laboratory tests, and by supplying immunizing agents to physicians and hospitals. Explains that agencies devoted to tuberculosis and polio prevention, community hospitals, the Red Cross, and the family physicians all work together to maintain high standards of health.

MEDICINE—Sanitation

A community problem (Motion picture) Caterpillar Tractor Co., 1950.

13 min., sd., b&w, 16 mm.

Summary: Use of heavy earth moving equipment in disposal of garbage by sanitary land fill method; other systems compared.

Concrete ditching for malaria control (Motion picture) U. S. Public Health Service, 1949.

1 min., sd., color, 16 mm. (Malaria control series)

Order no. 4-018

Summary: Shows how to construct a permanent concrete drainage system to eliminate breeding areas for malaria-carrying mosquitoes, improve community appearance, and create higher property values, greater farming efficiency, higher income, and standards of living.

Constructing a sanitary pit privy (Motion picture) U. S. Public Health Service, 1949.

13 min., sd., color, 16 mm. (Environmental sanitation series)

Order no. 4-053

With film guide.

Summary: Illustrates the public health value of the sanitary pit privy, the principles of sanitation involved in its construction, and construction procedures.

Contamination of water supplies by back siphonage (Motion picture) Audio-Visual Education Service, University of Minnesota, 1950.

30 min., sd., b&w, 16 mm.

Summary: Uses a laboratory model to illustrate the circumstances of water contamination through back siphonage. Shows how waste water from a plumbing fixture may be drawn into the water supply pipe when the pressure falls and a siphon on a lower level is opened, forming a partial vacuum sufficient to draw waste from impurely designed plumbing fixture into the water supply for drinking. Shows this condition in several types of fixtures and explains the corrective measures necessary to overcome the difficulty.

Control of household insects (Motion picture) U. S. Department of Defense, Armed Forces Institute of Pathology, 1948.

13 min., sd., b&w, 16 mm.

Order no. TP 8-1468

Summary: Effective methods of controlling household insects in mess halls and barracks; housefly, cockroach and bedbug. Effects of infestation, discomfort, lowered moral and disease.

Control of house-borne diseases (Motion picture) U. S. War Dept., 1946.

35 min., sd., b&w, 16 mm.

Order no. TP 8-1467

Summary: Shows the control of house-borne diseases through personal and barracks sanitation and the use of DDT and other insecticides.

— Another issue. 35 min.

Control of mosquito-borne diseases (Motion picture) U. S. Dept. of the Army, 1948. Released for public educational use through U. S. Office of Education, 1950.

10 min., sd., b&w, 16 mm.

Order no. TP 8-1463

Summary: Shows the efforts and cooperation of Army, Navy, and Air Force research personnel, laboratory technicians, and doctors to control and eradicate malarial, dengue, brain fever, and filariasis.

— Another issue. 35 min.

DDT as a mosquito larvicide (Motion picture) U. S. Public Health Service, 1947.

13 min., sd., b&w, 16 mm. (Malaria control series)

Order no. 4-0253

With film guide.

Summary: Shows the preliminary activities and the blasting which destroyed World's War, a large quagmire in the bottom lands of Arkansas, as part of a malaria control program.

— Another issue. 35 min.

DDT in the control of household insects (Motion picture) U. S. Dept. of the Army, 1948. Released for public educational use through U. S. Office of Education, 1949.

17 min., sd., b&w, 16 mm.

Order no. TP 8-1468

Summary: Shows methods of using DDT to kill houseflies, cockroaches, and bedbugs.

— Another issue. 35 min.

The danger point (Motion picture) Paper Cup and Container Institute, 1943.

12 min., sd., color, 16 mm.

Summary: Role of health department in guarding health of community; seasonal prevalence of respiratory infections; efforts of department to control such infections by means of isolation, immunization, and breaking channels of infection. How eating utensils may serve as channel of infection by which respiratory diseases are spread in public eating and drinking places, dramatized.

Importance of sanitation in home and sick room. Need for good wholesome food.

Defending the city's health (Motion picture) Erpi Classroom Films (later Encyclopedia Britannica Films) 1941.

11 min., sd., b&w, 16 mm.

Summary: Outlines major health problems of a modern city and surveys programs and services provided to meet these problems. Depicts functions of such divisions as public health nursing, sanitation, laboratory, child hygiene, and communicable diseases. Transitions a typical incident wherein a diptheria outbreak is retarded through the cooperation of a private physician, a family, and a city health department.

Drilling a well by the percussion method (Motion picture) U. S. Public Health Service, 1952

6 min., sd., color, 16 mm.

Order no. M-67

Summary: Explains the percussion well-drilling rig, the well-drilling tool, procedures in drilling the well, installation of casing, and use of a bailer in removing sludge and dirty water.

A drop in the bucket (Motion picture) U. S. Public Health Service, 1952. Produced by Warner Pathé.

15 min., sd., color, 16 mm.

Summary: Dramatized story of how dentists, civic leaders, health officials, and people of a town agreed to add fluoride to their community water supply. Explains how the fluoride is added, the cost of fluoridation, and the benefits accruing to the community.

— Another issue. b&w.

Dynamite (Motion picture) U. S. Public Health Service, 1944.

12 min., sd., b&w, 16 mm. (Malaria control series)

Order no. 4-0253

Summary: Shows the preliminary activities and the blasting which destroyed World's War, a large quagmire in the bottom lands of Arkansas, as part of a malaria control program.

— Another issue. 35 min.

Environmental sanitation (Motion picture) U. S. Office of Inter-American Affairs, 1945. Produced by Walt Disney Productions. Re-released by U. S. Institute of Inter-American Affairs, 1946.

9 min., sd., color, 10 mm. (Health for the Americas series)

Summary: Explains why sanitary facilities and practices are necessary to protect the health and lives of people living in crowded cities. Animated cartoon.

Every drop a safe one (Motion picture) Institutional Cinema Service, Inc., 1945.

10 min., sd., b&w, 16 mm. (Health Series)

Summary: Water, beautiful, refreshing, useful prime necessity of life; subject to contamination, may carry disease germs. Importance of water purification.

Modern plant shown (aerators, ammoniators, chlorinator, lime and alum machines, activators) chemical reaction. Sedimentation basin; recarbonation; filtration; chlorination; distribution under pressure. Sterilization of mains. Chemical and bacteriological laboratories.

— Another issue. 35 min.

Fly density surveys by the grill method (Motion picture) U. S. Public Health Service, 1949.

6 min., sd., color, 16 mm. (Community fly control series)

Order no. 4-060

With film guide.

Summary: Illustrates the nature, construction, and use of the fly grill for measuring fly density.

Galley sanitation (Motion picture) U. S. Dept. of the Army, 1948. Released for public educational use through U. S. Office of Education, 1949.

24 min., sd., b&w, 16 mm. (The stowaway series, no. 2)

Order no. TP 8-1502

Summary: Illustrates precautions and sanitary measures which should be observed by all food service organizations in order to prevent the spread of disease.

— Another issue. 35 min.

MEDICINE—Sanitation

Goodbye fly (Motion picture) Iowa State College Agriculture Extension Service. Made and released by Iowa State College, Film Production Unit, 1950.

13 min., sd., color, 16 mm.

Summary: Discusses the control of flies in their breeding places and feeding places, on the farm and in the city.

Hand ditching for malaria control (Motion picture) U. S. Public Health Service, 1948.

5 min., sd., color, 16 mm. (Malaria control series)

Order no. 4-017

Summary: Illustrates the principles of hand ditch construction, and shows how permanent drainage can solve the mosquito problem in areas of high mosquito count, and how reclaimed land can offset the cost of construction.

Hand to mouth (Motion picture) Joseph Eelen. Made by Motion Picture Production Unit, Federal Art Project, Works Progress Administration, 1939.

33 min., sd., b&w, 16 mm.

Summary: Illustrates the various means by which bacillary dysentery is spread, and presents methods for diagnosis, management of cases, and control. For students of biological science and public health.

Health and the cycle of water (Motion picture) Cast Iron Pipe Research Association, 1941.

20 min., sd., b&w, 16 mm.

Summary: Water purification, a municipal problem; responsibility of municipalities not to pollute streams. Working of water purification plant illustrated (diagnosis, sedimentation basins, filtering beds, washing of the filters, storage, and chlorination). Increase in number of water purification plants parallels decrease in number of cases of typhoid fever. Purification of sewage described in detail. Summary of various processes of purifying water in the cycle from rain to man. Use of cast iron pipe illustrated throughout film.

Health education against malaria (Motion picture) U. S. Public Health Service, 1947.

7 min., sd., b&w, 16 mm. (Malaria control series)

Order no. 4-010

Summary: A teacher uses the facts about malaria control and mosquito elimination in a health education course sponsored by local, state, and federal public health officials and later imparts the knowledge to home town grove by lecture, field trip, and individual instruction.

— Another issue. 35 min.

High-temperature short-time pasteurization (Motion picture) U. S. Public Health Service, 1951.

21 min., sd., b&w, 16 mm.

Order no. M-10-4

Summary: Illustrates the standards for high-temperature, short-time pasteurization of milk and the inspection procedures to be followed by a milk sanitarian, including checking the accuracy of the thermometer, functioning of the recorder-controller, pressure in the re-circulator, accuracy of the diversion valve, and duration of the holding time.

MEDICINE—Sanitation

Hydraulic dredging (Motion picture) U. S. Public Health Service, 1917.

8 min., ed. color, 16 mm.

Order no. 4-011.

Summary: Contrasts clear lakes with those choked with vegetation or mud. In the same Florida locality, shows how to convert marshes into clear lakes with the use of hydraulic dredging. Consists of still picture and drawings.

Individual sewage disposal systems (Motion picture)

U. S. Department of Health, Education and Welfare, U. S. Public Health Service, 1969-55.

42 min., ed., b&w, 16 mm.

Summary: Part I: Principles of Operation and Design. Basic principles of function, design, and layout of septic tanks for sewage disposal systems (graphical and models) for individual homes. Individual household sewage disposal system scientifically planned, properly constructed, adequately maintained.

Part II: Appraising Soils for Soil Absorption Systems. Principles and techniques of soil appraisal for soil absorption systems.

Part III: Constructing a Typical Household System. Principles and procedures involved in actual construction and maintenance of typical septic tank and subsurface disposal system.

It's up to you (Motion picture) U. S. Public Health Service, 1945.

17 min., ed., color, 16 mm. (Dengue and yellow fever control series)

Order no. 4-014.

Summary: Shows how the health department and other agencies in a city confronted with dengue and yellow fever epidemics plan and execute an anti-mosquito campaign.

—Another issue. b&w.

Kiln 'em with rat (Motion picture) Purdue University, 1955.

17 min., ed., color, 16 mm.

Summary: Emphasizes the economic importance of damage done by rats. Demonstrates and explains procedure in the killing of rats with calcium cyanide gas, and points out the use of sanitation, trapping, and poisoning in rat control.

Kiln the house (Motion picture) U. S. Institute of Inter-American Affairs, 1947. Produced by Apex Film Corp.

8 min., ed., color, 16 mm.

Summary: Emphasizes measures that a community can use to get rid of the house and thus eliminate typhus. Emphasizes the importance of cleanliness.

Laboratory control in milk sanitation (Motion picture) U. S. Public Health Service, 1931.

9 min., ed., b&w, 16 mm.

Order no. M-24-a. Summary: Demonstrates methods of collecting samples of raw and processed milk; portrays methods of laboratory examination of the samples; and discusses the laboratory findings in terms of hygiene factors and milk processes to remedy unsanitary conditions on the farm or in the plant.

Lakes and streams of Minnesota (Motion picture) Audio-Visual Education Service, University of Minnesota. Made and released by University of Minnesota, 1950.

19 min., ed., color, 16 mm.

Summary: A pictorial presentation of the water pollution problem in Minnesota as it existed in 1949. Depicts scenes of the benefits of clean, pure waters in health, sports and recreation, industry, and agriculture. Illustrates and contrasts the shocking effects of untreated sewage and industrial wastes in many of the streams of the State. Concluding scenes present several types of treatment plants to restore streams to their natural condition.

Malaria control in the Tennessee Valley (Motion picture)

Tennessee Valley Authority, 1941.

40 min., ed., color, 16 mm.

Summary: Record of malaria control program carried out by Tennessee Valley Authority in the Tennessee Valley; research, coordination of services, method of extermination of mosquitoes. Especially suitable for use by health authorities.

Malaria control on impounded waters (Motion picture) U. S. Public Health Service with the cooperation of Tennessee Valley Authority, 1948.

19 min., ed., color, 16 mm.

Order no. 4-025.1. Summary: Depicts the malaria control program for the Kentucky reservoir—planning operations; reservoir clearance before impounding; permanent control measures including fishing and draining; emergency control measures including house mosquito-proofing and spraying; and reservoir operations.

Migrant laborers and their children (Motion picture)

New York State Department of Health, 1947.

15 min., ed., b&w, 16 mm.

Summary: New York State's program for care of health and safety of migrant farm laborers and their children. Legal requirements for operating migrant labor camps, general living conditions, sanitation (toilets, food, water, waste disposal), medical and nursing care, tuberculosis and venereal disease control, health education and child care programs.

Milk and public health (Motion picture) U. S. Public Health Service, 1931.

12 min., ed., b&w, 16 mm.

Order no. 317.

Summary: Points out the dangers of haphazard milk production, the resultant public health problem, and the need for regulatory legislation and to reduce the risk of disease through the milk chain, the steps taken to insure healthy cows, sanitary equipment and supplies, and other hygienic methods throughout the production and processing of milk.

The mosquito (Motion picture) Encyclopaedia Britannica Films, 1947.

10 min., ed., b&w, 16 mm.

With teacher's guide.

Summary: Describes the life cycle of the mosquito, and emphasizes the importance of malaria mosquito control. Through close-up photography, portrays egg-laying, egg hatching, the molting process, the pupa stage, and the emergence of the adult mosquito. Presents examples of areas where mosquitoes breed, and demonstrates methods for combating the insect.

Mosquito proofing for malaria control (Motion picture) U. S. Public Health Service with the cooperation of Tennessee Valley Authority, 1948.

10 min., ed., b&w, 16 mm. (Malaria control series)

Order no. 4-025.1.

Summary: Shows some breeding places of the malaria-carrying mosquito, explains methods of mosquito-proofing a home, and contrasts the economic and health benefits of malaria control.

—Another issue. 35 mm.

Mosquitoes (Motion picture) U. S. Dept. of Agriculture, 1933.

51 min., ed., b&w, 16 mm.

A sound version was released in 1935 and revised in 1944 under title The mosquito public enemy. Summary: Shows species of mosquitoes that cause malaria and yellow fever, depicts the development of larvae and pupae from fully grown mosquitoes; describes their breeding places and methods of control.

—Another issue. 35 mm.

Mosquitoes and malaria (Motion picture) Edited Pictures System, 1927.

10 min., ed., b&w, 16 mm.

Summary: Discovery of malaria microbe by Alphonse Laveran in 1880; subsequent discoveries which reveal mosquitoes are carriers of malaria microbe; role of anophelous mosquito. Life history of mosquito, its breeding places; effect of its poison upon human blood.

—Another issue. silent.

Moths (Motion picture) Encyclopaedia Britannica Films, Inc., 1939.

11 min., ed., b&w, 16 mm.

Summary: Four developmental stages in life cycle of silk and white-marked tussock moths. Close-up photography of caterpillars emerging from eggs, feeding, molting, weaving cocoons; moths emerging from cocoons. Economic importance of moths.

Municipal sewage treatment processes (Motion picture) U. S. Public Health Service, 1951.

15 min., ed., b&w, 16 mm.

Order no. 316.

Summary: Shows the equipment and explains the processes used by U. S. cities to reduce sewage to harmless effluent and solids, thus protecting the health of residents and conserving water resources.

Oil larviciding (Motion picture) U. S. Public Health Service, 1945.

13 min., ed., color, 16 mm. (Malaria control series)

Order no. 4-017.

Summary: Shows the equipment and procedures for oil larviciding, and contrasts the values and disadvantages of using oil as a larvicide.

—Another issue. b&w.

MEDICINE—Sanitation

Paris green larviciding (Motion picture) U. S. Public Health Service, 1945.

11 min., ed., color, 16 mm. (Malaria control series)

Order no. 4-018.

Summary: Explains the equipment and procedures for using Paris green as a larvicide.

—Another issue. b&w.

Pipeline to the clouds (Motion picture) General Electric Co., 1951. Made by Raphael G. Wolf Studios.

22 min., ed., color, 16 mm.

Prepared in cooperation with the U. S. Public Health Service and the American Waterworks Association. Summary: Presents the story of water-supply in the American community. Explains how the sources of water, including the hydrological cycle, and the techniques of water treatment. Discusses the causes of water-supply crises and illustrates experiments for meeting shortages. Concludes with suggestions as to what the average citizen can do to assure an abundant supply of safe water in the years ahead. Includes animation and photography.

Pole drainage (Motion picture) U. S. Public Health Service, 1946.

7 min., ed., color, 16 mm. (Malaria control series)

Order no. 4-023.

Summary: Shows how to eliminate quagmires and other marshy mosquito-breeding areas through pole drainage, and restore the land to productivity.

—Another issue. b&w.

Prevent dysentery (Motion picture) U. S. Institute of Inter-American Affairs, 1947. Produced by Apex Film Corp.

7 min., ed., color, 16 mm.

Summary: Explains how dysentery spreads and how its spread can be prevented by the disposal of waste, protection of food, purification of water, control of flies, and good personal habits of all the people.

Preventing the spread of disease (Motion picture)

Institutional Cinema Service, Inc., 1944.

10 min., ed., b&w, 16 mm. (Health series)

Summary: How communicable diseases are transmitted; how community and individual can check movement of disease germs (sewage disposal; cleanliness in milk production, etc.). Importance of vaccination, preventive inoculation, and cleanliness. How to maintain good general health.

—Another issue. 35 mm.

Purification of water (Motion picture) U. S. Dept. of the Army, 1955.

20 min., ed., b&w, 16 mm.

Order no. 77-8-1515.

Summary: Demonstrates unit and individual techniques for water purification in the field, including the use of chemicals, filtering, and boiling.

MEDICINE—Sanitation

Rat ectoparasite control (Motion picture) U. S. Public Health Service, 1954.

8 min., ed., b&w, 16 mm. (Rat control series, no. 3)

Order no. M 37-1-2.
 Synopsis: Motion picture with the same title produced in 1951 by U. S. Dept. of the Army and U. S. Public Health Service.
 Summary: Explains the necessity to know where surface typhus or human exist, to kill rat from area before killing the rats; and demonstrate methods of using DDT to kill the flea.

Rat killing (Motion picture) U. S. Dept. of the Army and U. S. Public Health Service, 1951.

30 min., ed., b&w, 16 mm. (Rat control series, no. 6. Practical rat control, no. 9)

Order no. TF 8-107 or M 37-2.
 Summary: Discusses the uses of such rodenticides as rat squill, ANTU, arsenic trifluoride, 1000 water, and warfarin; and emphasizes three aspects of rat control—sanitation techniques, reinforced buildings, and rat killing.

The rat problem (Motion picture) U. S. Department of Defense, Armed Forces Institute of Pathology, 1950-1.

Part I: The Rat Problem.

21 min., ed., b&w, 16 mm.

Order no. TF 8-104.
 Synopsis: Part I: The Rat Problem. Destructiveness of rats; contamination of food; rat as carrier of disease; blood poisoning caused by rat bites; transmission of plague from rat to man by rat flea. Necessity for using scientific methods to control rats.

Part II: Habits and Characteristics of the Norway Rat.

15 min., ed., b&w, 16 mm.

Order no. TF 8-105.
 Summary: Part II: Habits and characteristics of the Norway Rat. Habits, characteristics, which enable it to live with man, and enable man to control it.

Part III: Habits and Characteristics of the Roof Rat.

15 min., ed., b&w, 16 mm.

Order no. TF 8-106.
 Summary: Part III: Habits and characteristics of the Roof Rat. Habits and characteristics of roof rat which enable it to live with man, and enable man to control it.

Part IV: Sanitation Techniques in Rat Control.

15 min., ed., b&w, 16 mm.

Order no. TF 8-107.
 Summary: Part IV: Sanitation Techniques in Rat Control. Sanitation emphasized as basic method of eliminating rats. Its controlling conditions necessary to rat life, availability of food and harborage, rats can be successfully eliminated.

Part V: Rat Ectoparasite Control.

15 min., ed., b&w, 16 mm.

Order no. TF 8-108.
 Summary: Part V: Rat Ectoparasite Control. Measures for controlling rat flea by use of DDT.

The rat problem (Motion picture) U. S. Public Health Service, 1954.

26 min., ed., b&w, 16 mm. (Rat control series, no. 1)

Order no. M 37-1-4.
 Synopsis: Motion picture with the same title produced in 1951 by U. S. Dept. of the Army and U. S. Public Health Service. Summary: Emphasizes the importance of controlling rats by cutting down their food supply, and suggests various methods of garbage and refuse storage and removal.

Ratproofing (Motion picture) U. S. Dept. of the Army and U. S. Public Health Service, 1951.

18 min., ed., b&w, 16 mm. (Rat control series, no. 5. Practical rat control, no. 2)

Order no. TF 8-103 or M 37-3.
 Summary: Explains methods and materials to be used in the ratproofing of buildings as to prevent the entry or exit of rats, and after ratproofing the exterior of a building, the necessity of killing all rats inside.

Rearing and handling of anophelis mosquitoes (Motion picture) U. S. Public Health Service, 1955.

10 min., ed., color, 16 mm. (Malaria control series)

Order no. 4-406.
 Summary: Depicts the laboratory techniques used at the U. S. Public Health Service Malaria Research Laboratory, Columbia, S. C., in rearing anophelis mosquitoes in health laboratories studying transmission of various types of malaria.
 — Another issue. b&w.

Safe drinking water from small water supplies (Motion picture) Audio-Visual Education Service, University of Minnesota, 1952.

10 min., ed., b&w, 16 mm.

Summary: Shows how dug and driven wells in rural areas become contaminated, and illustrates methods by which water contamination can be prevented by using sealed wells and enclosed pumps.

Sampling raw milk (Motion picture) U. S. Public Health Service, 1952.

7 min., ed., b&w, 16 mm.

Order no. M 51-2.
 Summary: Shows in detail the procedure used by sanitarians in the collection of samples of raw milk for laboratory examination.

Sanitary land fills (Motion picture) U. S. Public Health Service, 1947.

15 min., ed., color, 16 mm.

Order no. 4-407.
 Summary: Shows the defects in open dump garbage feeding, and illustrates for garbage disposal; and describes the sanitary, economic, and social benefits of land fills, planned and operated as an engineering program.
 — Another issue. b&w.

The sanitary market (Motion picture) U. S. Institute of Inter-American Affairs, 1947. Produced by Apex Film Corp.

9 min., ed., color, 16 mm.

Summary: Explains the dangers of a filthy food market; shows the sanitary conditions which should be maintained in markets; and emphasizes that clean markets are a community responsibility.

Sanitary storage and collection of refuse (Motion picture) U. S. Public Health Service, 1952.

10 min., ed., color, 16 mm.

Order no. M 37-4.
 Summary: Shows operations essential in the sanitary handling and storage of refuse by individual citizens and the municipal collection of such refuse from homes, restaurants, markets, and other sources.

Sanitation techniques in rat control (Motion picture) U. S. Public Health Service, 1954.

12 min., ed., b&w, 16 mm. (Rat control series, no. 4. Practical rat control, no. 3)

Order no. M 37-1-4.
 Synopsis: Motion picture with the same title produced in 1951 by U. S. Dept. of the Army and U. S. Public Health Service. Summary: Explains the importance of controlling rats by cutting down their food supply, and suggests various methods of garbage and refuse storage and removal.

Sewage disposal (Motion picture) Eastman Teaching Films, 1950. Released by Encyclopaedia Britannica Films.

11 min., ed., b&w, 16 mm.

Summary: Through animation, indicates sources of sewage and trade wastes. Discusses purification by lagoon tank and sprinkling filter, purification by sand filtration, and the discharging of sewage into the ocean with the ship life.

Sewage treatment (Motion picture) U. S. Public Health Service, 1948.

5 min., ed., b&w, 16 mm.

Order no. 4-478.
 Synopsis: Shows the 1948 General Electric Co. motion picture released under the title Clean Water. Summary: Explains some of the processes and equipment used by U. S. communities for the treatment of sewage.

The stowaway (Motion picture) U. S. Department of Defense, Armed Forces Institute of Pathology, 1949-50.

17 min., ed., b&w, 16 mm.

Summary: Part I: Diseases and Personal Hygiene. Obvious and obscure ways in which diseases are spread by food handling personnel; proper sanitary precautions and remedies illustrated.
 24 min., ed., b&w, 16 mm.

Summary: Part II: Galley Sanitation. Methods of sanitation observed in a ship's galley illustrate how food service organizations should exercise every precaution to insure all sanitary measures in preventing spread of disease.

12 min., ed., b&w, 16 mm.

Order no. TF 1591-3.
 Summary: Part III: Food Storage, Preparation and Serving. Careful inspection of food for use aboard troop transports (principles applicable to all units handling food). Details of proper storage and preservation of foods.

Swat the fly (Motion picture) Edited Pictures System, 1927.

10 min., ed., b&w, 16 mm.

Summary: Common house fly as carrier of disease. Frequenter of germ-laden refuse heap; microscopic studies of its physical members show how fly is equipped to carry deadly germs. Functioning of fly's organs and process of reproduction.
 — Another issue. silent.

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Tale of the twin cities (Motion picture) University of Minnesota, 1949.

20 min., ed., color, 16 mm.

Summary: Twin City citizens unite to remedy unsanitary condition of Mississippi River in their area. Civic cooperation and planning lead to construction plant for chemical treatment of sewage. Two young boys on guided tour see machines for removal of sludge solids, chemists making tests, settling tanks, incinerators, etc.

Treasure in a garbage can (Motion picture) University of California at Los Angeles. Released by Educational Film Sales Dept., University Extension, University of California, 1953.

20 min., ed., b&w, 16 mm.

With teacher's guide.
 Summary: Shows how a large city collects and salvages the refuse and discarded materials in its area.

Twist the cup and the lip (Motion picture) New York State Department of Health, 1940.

23 min., ed., b&w, 16 mm.

Summary: Epidemic of colds brings to light unsanitary conditions in handling of cooking, eating and drinking utensils in city of Milwaukee; health officials go into action; and towns clean dishes and glasses. Approved methods and means of complying with sanitary regulations on cleaning utensils.
 — Another issue. 35 mm.

The use of aircraft for insect control. Part I: Mosquito control (Motion picture) U. S. Public Health Service, 1949.

13 min., ed., b&w, 16 mm. (Malaria control series)

Order no. 4-477.

With illustration guide.
 Synopsis: The same title, covering the same subject matter, also available. Summary: Depicts the general technique, materials, and equipment developed in the use of aircraft for mosquito control; and indicates the kind of situations in which such control may economically and feasibly be applied.
 — Another issue. 35 mm.

Water, friend or enemy (Motion picture) U. S. Coordinator of Inter-American Affairs, 1948. Produced by Walt Disney Productions. Re-released by U. S. Institute of Inter-American Affairs, 1949.

10 min., ed., color, 16 mm.

Summary: Stresses the importance of pure water; illustrates correct measures in keeping spring and well water from being contaminated; and suggests boiling of water as a final precaution. Animated cartoon.

The water we drink (Motion picture) Coronet, 1952.

10 min., ed., color, 16 mm.

Summary: Scenes of two young boys walking in a forest provide a background for a discussion of the body's need for water; the importance of developing proper drinking habits; the source of community water; and the methods of purifying water.
 — Another issue. b&w.

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Waters of the Commonwealth (Motion picture) Sanitary Water Board, Pennsylvania Dept. of Health. Made by Jan Handy Corp. Released by Pennsylvania Dept. of Health, 1950.

25 min., sd., color, 16 mm.

Summary: Shows the necessity for cleaning up streams and preventing gross pollution. Outlines what has been accomplished under Pennsylvania's clean stream program.

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Abdominal colostomy closure (Pouchet method) (Motion picture) U. S. Dept. of the Army, 1947.

9 min., sd., color, 16 mm.

Order no. PMP 5002.

Summary: Demonstrates a case of a well-functioning colostomy of double loop type located on the left side in the sigmoid colon. Describes the method used to accomplish closure, and necessary precautions to be observed. For medical personnel.

Abdominal complete hysterectomy with right salpingo-oophorectomy (Motion picture) William Felix Mengert. Made by Davis & Geck, 1951. Released by Davis & Geck Film Library.

30 min., sd., color, 16 mm.

Summary: Abdominal total hysterectomy by the clamp method, including operative details and a method of wound treatment. For gynecologists.

Abdomino-perineal resection for carcinoma of the rectum (Motion picture) Davis & Geck, 1950.

19 min., sd., color, 16 mm.

Summary: Illustrates freeing the sigmoid, a deep pelvic section to the levators with ligation of the middle hemorrhoidal pedicle and careful reconstruction of the pelvic peritoneal diaphragm. Shows construction of the colostomy.

Abdomino-perineal resection of the rectum (Motion picture) Davis & Geck, 1951.

34 min., sd., color, 16 mm.

Summary: Demonstrates abdomino-perineal resection of the rectum as performed by two teams working simultaneously. Shows the advantages of this technique as compared with the conventional one-team technique.

Amputation of lower extremity (Motion picture) U. S. Department of Defense, Armed Forces Institute of Pathology, 1944.

44 min., sd., color, 16 mm.

Order no. PMP 50010.

Summary: Detailed technique of amputation of lower extremity; operative and postoperative procedures.

Amputation prostheses and their use. Part 1: Upper extremity (Motion picture) U. S. War Dept., 1946.

30 min., sd., b&w, 16 mm.

Order no. PMP 50024.

Summary: Emphasizes the importance of patients' preparing for prostheses and of training in their use. Shows steps in the making and fitting of prostheses for lower extremity amputations.

— Another issue. 35 min.

Amputation prostheses and their use. Part 2: Lower extremity (Motion picture) U. S. War Dept., 1946.

35 min., sd., b&w, 16 mm.

Order no. PMP 50025.

Summary: Demonstrates the care used by an orthopedic mechanic in making and fitting prostheses for lower extremity amputations.

— Another issue. 35 min.

Amputations for occlusive arterial disease, with refrigeration anesthesia and immediate ambulation (Motion picture) Davis & Geck, 1948.

22 min., sd., color, 16 mm.

Summary: Demonstrates amputation technique. Shows a simple skin incision with resection of skin flap, the division of the muscle as thick and a half above the skin flap, and the division of the bone as thick above the muscle area. Closure is simple, with silver steel wire through the skin. Retraction is performed by skin traction with rubber bands. Anesthesia is given by hypodermic. Speed, asepsis, and early ambulation are key notes.

Anomalies in the development of the gastrointestinal tract (Motion picture) Joseph J. McDonald. Released by Center for Mass Communication, 1947.

20 min., sd., color, 16 mm. (Gastro-intestinal tract)

Summary: Shows a group of anomalies of the gastro-intestinal tract; pre-operative and operative observations; explains surgery findings in some cases. Includes photographs and illustrated diagrams.

Anomalies of the bile ducts—Blood vessels and strictures of the common duct (Motion picture) American College of Surgeons. Made by Mervin W. La Rue, Inc., 1947. Released by Ethicon Suture Laboratories, Division of Johnson & Johnson.

40 min., sd., color, 16 mm.

Summary: Illustrates the traumatic and nontraumatic causes of strictures of the common duct. Describes the localization of strictures and their surgical repair, and the occurrence of congenital atresia. Emphasizes precautions to be followed during surgery. For surgeons, internists, and medical students.

Anorectal division versus pectenotomy (Motion picture) Mervin W. La Rue, Inc., 1951.

13 min., sd., color, 16 mm.

Summary: Demonstrates the role of the pecten band in anal tightness, and shows operative solution by pectenotomy. For proctologists and surgeons.

Anterior dislocations of the shoulder (Motion picture) Davis & Geck, Inc., 1949.

41 min., sd., color, 16 mm.

Order no. 254.

Summary: Chronic shoulder dislocation of four weeks standing, to illustrate extent of lesions and surgical repair; isolation; anatomy shown in diagram; operative repair, by drawings. Repair of recurrent dislocations: inferior approach through deltopectoral interval; complete detachment of glenoid labrum with fragmentation. (Dr. H. F. Moseley)

Anterior resection of rectosigmoid with primary anastomosis (Motion picture) George Walter Brindley. Made by Davis & Geck, 1951. Released by Davis & Geck Film Library.

30 min., sd., color, 16 mm.

Summary: Illustrates the anterior resection of a carcinoma of the rectosigmoid and the re-establishment of intestinal continuity by anastomosis of the sigmoid in the upper rectum, supplemented by a compensatory caecostomy. For general surgeons.

Anterior resection of the rectum (Motion picture) Davis & Geck, 1948.

27 min., sd., color, 16 mm.

Summary: Shows how a freely movable tumor (adenocarcinoma grade 1) is removed together with a segment of the rectosigmoid wall above and below the tumor, continuity is re-established by end-to-end anastomosis utilizing the Varnus clamp technique for specific anastomosis, and a resection is done for decompression. Demonstrates the Cherny transverse incision.

Aortic-pulmonary anastomosis for pulmonary stenosis (Motion picture) Willis J. Potts and Sidney Smith, 1951. Made by Mervin W. La Rue.

28 min., sd., color, 16 mm.

Summary: A revision of the 1948 motion picture of the same title. **Summary:** Reports an aortic-pulmonary anastomosis procedure for the treatment of stenosis of the pulmonary artery, employing the aortic clamp devised by W. J. Potts. For residuals in cardiac surgery and cardiac surgeons.

Appendectomy (Motion picture) Davis & Geck, Inc., 1958.

18 min., sd., color, 16 mm.

Order no. 29.

Summary: Appendectomy—incision, non-ligation technique (Dr. Alton Ochsner).

Application of thick split skin grafts (Motion picture) Davis & Geck, Inc., 1950.

33 min., sd., color, 16 mm.

Order no. 73.

Summary: Importance of cleaning wounds, covering them with skin grafts as early as possible after loss of large portions of skin. Operation performed on patient with skin losses of both legs and arms; preparation, application of grafts, dressings. Equipment required to obtain grafts. Grafting areas of scalp and forehead (Dr. J. Barrett Brown, F. McDowell).

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Arterial disorders in the upper extremity and their treatment by sympathectomy (Motion picture) U. S. Dept. of the Army, 1950.

30 min., sd., color, 16 mm.

Order no. PMP 5002.

Summary: Gives the indications, clinical factors, and precautions for arterial disorders in the upper extremity and their operative treatment by a sympathectomy. For medical personnel.

Arteriovenous fistula: Posterior tibial vessels (Motion picture) U. S. Dept. of the Army, 1948.

19 min., sd., color, 16 mm.

Order no. PMP 5004.

Summary: Illustrates preoperative situations; shows surgical technique in a case of arteriovenous fistula of the posterior tibial vessels; indicates postoperative findings and precautions.

Arteriovenous fistula with false sac: Lower femoral vessels—quadruple ligation and excision (Motion picture) U. S. Dept. of the Army, 1948.

10 min., sd., color, 16 mm.

Order no. PMP 5003.

Summary: Describes essential phases of diagnosis for vascular disease. Indicates the best conditions for preoperative studies, and shows details of surgical procedure.

Arytenoidectomy: open approach for bilateral abductor paralysis (Motion picture) Otolaryngological Service, Columbia Presbyterian Medical Center. Made and released by Sturge-Grant Productions, made 1949.

31 min., sd., color, 16 mm.

Summary: Shows the surgical correction of paralysis of the vocal cords in a nerve injury case, the removal of one arytenoid cartilage and lateral fixation of the corresponding cord widening the glottic chink, and preoperative and postoperative results. Includes a section on voice training of each patient. For laryngologists.

Below knee amputation (Motion picture) U. S. War Dept., 1946.

14 min., sd., color, 16 mm.

Order no. PMP 5001.

Summary: Demonstrates a method of amputation immediately following injury and its secondary repair of a stump. For medical personnel.

Biceps tendon transference (Motion picture) Davis & Geck, 1950.

10 min., sd., color, 16 mm.

Summary: Demonstrates a biceps tendon transference for recurrent dislocations of the shoulder. For professional groups only.

Bilateral femoral vein interruption (Motion picture) Davis & Geck, 1946.

28 min., sd., color, 16 mm.

Summary: Demonstrates ligation and division of veins bilaterally for deep femoral vein thrombosis and prevention of pulmonary embolism, and right superficial femoral with thrombectomy.

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Iliostomy (Motion picture) Davis & Geck, Inc., 1945.

10 min., sd., color, 16 mm.
Order no. CS-241.

Breast and axilla (Motion picture) Billy Burke Productions, 1941.

18 min., sd., color, 16 mm. (Surgical Anatomy Series)
Summary: Lymphatic drainage of breast. Incision made and pectoralis major covered just below cephalic vein as minor exposes axillary vein and lymphatics which are dissected. Three divisions of axillary artery and vein, brachial plexus cords, and nerves branching from them. Dissection of unembalmed cadavers shows natural color and condition of tissues involved.

Breast plastic; one stage operation of pendulous breasts (Motion picture) Philip Thorck, made 1950.

30 min., sd., color, 16 mm.

Summary: Demonstrates the cosmetic reconstruction of hypertrophied breasts by extensive surgery with free transplantation of adipose and areolar tissue. Descriptive course of plastic surgery where breast glandular tissue is retained. For general surgeons.

A bronchoscopic clinic (Motion picture) Paul H. Holinger, Kenneth G. Johnston, and Frank J. Norak, III, 1948.

30 min., sd., color, 16 mm.

Summary: Illustrated by slides summarizing the case histories, by X-ray and histological sections from biopsies, presents bronchoscopic views of the patients with bronchopulmonary disease. Shows the technique of bronchoscopy and of endoscopic photography and electrocautery. Five medical students, interns, residents, general internists, internists, obstetricians, and thoracic surgeons.

Calcified deposits in the rotator cuff (Motion picture) Davis & Geck, Inc., 1948.

22 min., sd., color, 16 mm.

Summary: Calcium deposits, before and after rupture into bursa; surgery to remove deposit. Calcium deposits in tendons of rotator cuff, after rupture into surrounding tissues (Dr. H. P. Mosley).

Cancer of the bladder (Motion picture) Lowell S. Goin, 1944. Made by Billy Burke Productions.

16 min., sd., color, 16 mm.

Summary: In a typical case reports the management of cancer of the bladder at the tricus, proceeding from specific diagnosis to appropriate cytology and electromyogram tumor removal followed by immediate and 7-10 day constant X-ray therapy. For urologists and radiologists.

Carcinoma of the thyroid: thyroidectomy and neck dissection (Motion picture) Randolph Lee Clark, Made by Davis & Geck, Inc., 1941. Released by Davis & Geck Film Library.

22 min., sd., color, 16 mm.

Summary: Describes and demonstrates an operative procedure designed to remove the entire thyroid gland and the area of regional metastasis in thyroid carcinoma. For general surgeons.

Cardiomy for removal of bullet embedded in right ventricle (Motion picture) Raymond W. McNelly, Made and released by Merritt W. Le Run, Inc., 1949.

11 min., sd., color, 16 mm.

Summary: Demonstrates an extrapleural approach to the pericardium and right ventricle for excision and foreign removal of a bullet embedded in the myocardium. For surgeons.

A case of true hermaphroditism (Motion picture) Davis & Geck, 1947.

20 min., sd., color, 16 mm.

Summary: Demonstrates a case of true hermaphroditism in a three-year-old child who had been brought up as a female. Shows the patient with a vagina, a mass in the right groin, and a markedly enlarged placenta. In abdominal exploration to determine the presence of internal genitalia shows a uterus and ovary. A biopsy of the mass of internal genitalia reveals a testis. Explains that it was the desire of the parents to have the child a female. Shows the removal of the testis and enlarged placenta and a female repair on the defect in the anterior portion of the pelvis. For professional groups only.

Cataract extraction (Motion picture) Davis & Geck, 1944.

26 min., sd., color, 16 mm.

Summary: Demonstrates various methods of cataract extraction, including extracapsular extraction, intracapsular with the use of forceps and counter pressure, and intracapsular with utilization of endo and counter pressure. Shows methods of opening the sclera and conjunctiva, and the technique for local infiltration anesthesia. For professional groups only.

Cataract extraction (Motion picture) Davis & Geck, Inc., 1936.

11 min., sd., b&w, 16 mm.

Summary: Intracapsular removal and corneal, scleral sutures (Yerkoff). (Dr. William P. Beetham)

Cataract Extraction (Motion picture) The Ophthalmological Foundation, Inc., 1951.

10 min., sd., color, 16 mm.

Summary: Several methods of extraction for complicated cataract (Dr. Conrad Bevers).

Cervical diverticulectomy; one-stage operation (Motion picture) Philip Thorck, 1947.

22 min., sd., color, 16 mm.

Summary: Shows the surgical technique of a one-stage diverticulectomy for a large diverticulum of the cervical esophagus, illustrating the pertinent anatomy and the use of a Larynx tube during surgery. For surgeons.

Cholecystectomy for acute cholecystitis with cholelithiasis (Motion picture) Frank Glenn, Made and released by Davis & Geck, 1952.

24 min., sd., color, 16 mm.

Summary: Presents the personal management of acute cholecystitis in a simple case. Includes clinical diagnosis, preoperative preparation, management of a preoperative emphysema, removal of the gall bladder with some of the cystic duct, and description of postoperative course. For surgeons.

Cholecystojejunostomy (Motion picture) Philip Thorck; made 1949.

15 min., sd., color, 16 mm.

Summary: Demonstrates a technique for palliative antecolic cholecystojejunostomy for inoperable carcinoma of the head of the pancreas. Shows biopsy of liver metastasis. For medical students and surgical residents.

Cholelithiasis with common duct stone (Motion picture) Davis & Geck, 1943.

30 min., sd., color, 16 mm.

Summary: Follows a patient from admission to the hospital with a typical history of a common duct stone, through the preoperative period and operation. Presents the pertinent laboratory data to indicate an obstructive type of jaundice, and shows a postoperative cholangiogram.

The cholelith operation (Motion picture) U. S. Dept. of the Army, 1947.

18 min., sd., color, 16 mm.

Summary: Demonstrates how to attach cords to the selected muscle and then to the prosthetic appliance so that the patient can operate the appliance by contracting muscles in the asymptomatic arm. For medical personnel.

Coarctation of the Aorta (Motion picture) Davis & Geck, Inc., 1952.

20 min., sd., color, 16 mm.

Summary: Embryology, anatomy, physiology of coarctation of aorta; clinical features, roentgen findings; surgical treatment. Resection of a coarctation with end to end anastomosis; roentgenograms. Patient three months after operation.

Coarctation of the aorta (Motion picture) John C. Jones, Made and released by Billy Burke Productions, 1948.

22 min., sd., color, 16 mm.

Summary: Discusses embryology, anatomy, and physiology of coarctation of the aorta; shows clinical features, roentgen findings, and surgical treatment. Demonstrates a resection of coarctation with end to end anastomosis. Shows patient three months after operation. For medical personnel.

Colostomy closure (End to end anastomosis) (Motion picture) U. S. Dept. of the Army, 1947.

14 min., sd., color, 16 mm.

Summary: Demonstrates surgical repair of left upper abdominal colostomy. For medical personnel.

Combined Abdominal and Right Thoracic Approach to Carcinoma of the Mid-esophagus (Motion picture)

Davis & Geck, Inc., 1953.

25 min., sd., color, 16 mm.

Summary: Right thoracic approach to carcinoma of esophagus beneath arch of aorta; history, principal advantage of approach: isolation; exploration of abdomen; vagus nerve divided; esophagus mobilized; esophagus preserved; abdomen closed. Isolation in thorax; advantages of this association; isolation into mediastinal

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pleura; dissection of lower esophagus; stomach delivered into thorax; esophagus closed. Anastomosis; closure of thorax. Post-operative picture (Dr. Edward H. Kent, Samuel P. Harwood).

Combined abdomino-perineal resection (one-stage) for carcinoma of the rectum (Motion picture) Davis & Geck, 1953.

35 min., sd., color, 16 mm.

Summary: A record of a variation of the Miles abdomino-perineal resection, as performed by the author of the film. For surgeons, residents and interns in surgery.

Combined operation: Fusion of lumbosacral joint (Motion picture) Davis & Geck, 1952.

32 min., sd., color, 16 mm.

Summary: Demonstrates fusion of a lumbosacral joint and hemilaminectomy for removal of a herniated disc. For professional groups only.

Combined resection of tongue and floor of mouth with radical neck dissection (Motion picture) U. S. Veterans Administration, 1952.

31 min., sd., color, 16 mm.

Summary: Demonstrates a technique of radical surgical dissection for primary intra-oral cancer, incorporating the concepts of removal of the pathways of lymphatic metastases in continuity. Shows radical neck dissection, resection of the mandible, and a method of primary reconstruction of the mouth and jaw. For medical personnel.

Commissurotomy for mild stenosis (Motion picture) Davis & Geck, Inc., 1953.

45 min., sd., b&w, 16 mm.

Another issue, color.

Order no. CS 224.

Common duct exploration and drainage with cholecystectomy (Motion picture) Philip Thorck, M.D., 1950.

16 min., sd., color, 16 mm.

Summary: Exploration with removal of stones from common duct followed by T-tube drainage of common duct and retrograde cholecystectomy.

Complete extirpation of the pelvis (Motion picture) Davis & Geck, 1950.

30 min., sd., color, 16 mm.

Summary: Demonstrates the surgical technique for the complete extirpation of the pelvic organs in far-advanced cases of pelvic carcinoma which have not responded to radiation or less extensive surgical procedures. Shows the technique for complete removal of the pelvic viscera, division of the ureters and intracapsular removal of the uterus into the colon and permanent colostomy. Demonstrates division of the external iliac vessels in a far-advanced case of pelvic carcinoma with invasion of these vessels, and shows the post-operative result in the patient. For professional groups only.

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Complete ligation of the perineum (Motion picture)

Davis & Geck, Inc., 1941.
14 mins., ed., color, 16 mm.

Summary: Surgery to repair complete tear which occurred 12 years previous at delivery of first child by high breech (Dr. Louis E. Howard).

Complete neck dissection (Motion picture) Davis & Geck, Inc., 1942.

22 mins., ed., color, 16 mm.

Summary: Shows a group of cases 3 to 12 years after complete neck dissection both unilateral and bilateral, and complete neck dissection in a patient who had been treated for a tumor of the larynx. Shows the various procedures developed for a variety of cases. Demonstrates the more operative procedure, showing not all of the anatomical structure lost in the operation. Shows postoperative result.

Congenital angiodysplasia: case reports (Motion picture) U. S. War Dept., 1944.

30 mins., ed., color, 16 mm.

Summary: Shows cases of congenital angiodysplasia, their management, and the various procedures developed for the operation. The final procedure.

U. S. War Dept., 1944.

Congenital pulmonary stenosis with defect interventricular septum (Motion picture) U. S. War Dept., 1944.

30 mins., ed., color, 16 mm.

Summary: Shows diagnosis, treatment of congenital pulmonary stenosis, and the various procedures developed for the operation. The final procedure.

U. S. War Dept., 1944.

Correction of severe back scoliosis (Motion picture) U. S. War Dept., 1944.

30 mins., ed., color, 16 mm.

Summary: Shows a case of severe back scoliosis which includes a description of the scoliosis, its treatment, and the various procedures developed for the operation. The final procedure.

U. S. War Dept., 1944.

Correction of the bicuspid aortic valve into a valve tube for hemodynamic efficiency (Motion picture) U. S. War Dept., 1944.

30 mins., ed., color, 16 mm.

Summary: Shows a case of bicuspid aortic valve which includes a description of the valve, its treatment, and the various procedures developed for the operation. The final procedure.

U. S. War Dept., 1944.

Chen's method of hemiparalysis: Transverse section (Motion picture) U. S. War Dept., 1944.

30 mins., ed., color, 16 mm.

Summary: Shows a case of hemiparalysis which includes a description of the condition, its treatment, and the various procedures developed for the operation. The final procedure.

U. S. War Dept., 1944.

Correction of cleft lip (Motion picture) Davis & Geck, Inc., 1941.

20 mins., ed., color, 16 mm.

Summary: Correction of cleft lip: modification to prevent depression of floor of mouth (Dr. T. J. Blocker, Jr.).

Debridement of compound fracture of the skull (Motion picture) U. S. Dept. of the Army, 1945.

15 mins., ed., color, 16 mm.

Summary: Demonstrates a surgical approach to the debridement of a compound depressed fracture of the right temple region, as practiced during World War II. For medical personnel.

Debridement in the treatment of tuberculous pleuritis (Motion picture) U. S. Dept. of the Army, 1942.

23 mins., ed., color, 16 mm.

Summary: Operative procedure for the debridement of the lung in the treatment of tuberculous pleuritis.

Demonstration of Cushing's experiment in the dog (Motion picture) U. S. Dept. of the Army, 1945.

14 mins., ed., color, 16 mm.

Summary: Demonstrates the essential details as follows: In preparation of the dog, the dog is anesthetized and the adrenal glands are removed. The dog is then observed for the effects of the removal of the adrenal glands.

Diabetic gangrene (Motion picture) Billy Burke Productions, 1945.

15 mins., ed., color, 16 mm.

Summary: Clinical-pathological study of lower leg lesions complicating Diabetes Mellitus, including cellulitis, abscesses, ulcerations from varicose veins, infection with organisms of the foot. Two types of amputation, using circular flaps without use of tourniquet, by compression with quillstone preparation using tourniquet, demonstrating various methods of debridement, amputation. X-rays, treatment of amputation, amputation, amputation.

The diagnosis and surgical treatment of congenital hypertrophic pyloric stenosis (Motion picture) Davis & Geck, Inc., 1942.

20 mins., ed., color, 16 mm.

Summary: Shows the diagnosis of congenital hypertrophic pyloric stenosis, its treatment, and the various procedures developed for the operation. The final procedure.

Pneumothorax: Results of thoracotomy approach (Motion picture) U. S. War Dept., 1944.

30 mins., ed., color, 16 mm.

Summary: Shows a case of pneumothorax which includes a description of the condition, its treatment, and the various procedures developed for the operation. The final procedure.

Pneumothorax: Results of thoracotomy approach (Motion picture) U. S. War Dept., 1944.

30 mins., ed., color, 16 mm.

Summary: Shows a case of pneumothorax which includes a description of the condition, its treatment, and the various procedures developed for the operation. The final procedure.

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Diseases of the gallbladder (Motion picture) Hilger Perry Jenkins, Rudolf Janda, and Douglas Packard. Released by Surgical Films Library, Davis & Geck, 1949.

10 mins., ed., color, 16 mm.

Summary: Presents a series of seven gallbladder pathologies demonstrated at the operating table and in surgical specimens, as correlated with cholangiograms, pertinent points of the case histories, and physical and laboratory findings. For medical students.

Diseases of the stomach and duodenum (Motion picture) Hilger Perry Jenkins and Douglas K. Packard, 1941.

17 mins., ed., color, 16 mm.

Summary: Demonstrates the surgical pathology of four common gastric and duodenal disorders: gastric carcinoma, gastric ulcer, perforated duodenal ulcer, and gastroduodenal ulcer, with pertinent history, physical findings, and laboratory and X-ray data.

Division of patent ductus arteriosus (Motion picture) John C. Jones. Made and released by Billy Burke Productions, 1947.

15 mins., ed., color, 16 mm.

Summary: Shows X-ray of an enlarged heart with prominent pulmonary vessels. Demonstrates how, after a left posterolateral thoracotomy incision, the ductus is dissected and divided and ends of the aorta and pulmonary artery sutured. Shows anatomy, as well as the X-ray of the normal heart three months after the operation. For medical personnel.

The double pin method in the treatment of fractures of the ulna and fibula (Motion picture) New York Medical College, 1940.

20 mins., ed., color, 16 mm.

Summary: Various displacements, occurring in fractures of shaft of ulna and fibula, illustrated on skeleton, followed by proper insertion of Steinman pins through bony landmarks on osteotomized ulna. Use of McMillan reduction apparatus, following insertion of pins in actual cases. Fracture before and after reduction as shown by portable X-rays. Plaster cast applied; after this has hardened limb is removed from McMillan apparatus; walking iron applied. Alternate method of securing reduction on fracture table. Patient walking on crutches and walking iron. "Drilling" operation for treatment of delayed union. (Dr. Milton J. Wilson, Alan R. Cantwell).

Effects of hemidecortication in the dog (Motion picture) Winthrop N. Kellogg. Made and released by Audio-Visual Center, Indiana University; made 1947.

11 mins., ed., color, 16 mm.

Summary: Presents the types and origins of circling movements, hemiparesis, and loss of normal position reflexes after hemidecortication. Shows the site and effects of lesion, and the visual pathway to the occipital lobes. For students of psychology and neurology.

Elevation of depressed fracture (Motion picture) U. S. Dept. of the Army, 1945.

8 mins., ed., color, 16 mm.

Summary: Demonstrates the surgical management of a case of compound depressed fracture in the left frontal region, caused by a machine blow. For medical personnel.

End-to-end anastomosis of splenic vein to renal vein (Motion picture) Arthur H. Blakemore, 1948. Made by Surgical-Film Productions.

21 mins., ed., color, 16 mm.

Summary: Records a procedure for postcaval shunt for portal hypertension by end-to-end anastomosis of splenic vein to renal vein.

Endaural approach to temporal bone surgery (Motion picture) Howard P. House. Made and released by Billy Burke Productions, 1949.

63 mins., ed., color, 16 mm.

Summary: In a patient, demonstrates intravenous anesthesia, field preparation, drilling, and endaural incision to the temporal bone. In patients, demonstrating a simple mastoid operation with endaural approach, a modified radical mastoidectomy, a fenestration operation, and a radical mastoid with endaural approach. For students of otology.

Esophageal diverticulum (Motion picture) Davis & Geck, Inc., 1947.

40 mins., ed., color, 16 mm.

Summary: Shows two-stage operation for removal of a large sac, with demonstration of complications.

Esophagostomy for achalasia of the esophagus (Motion picture) Sturgis-Grant Productions, Inc., 1950.

25 mins., ed., color, 16 mm.

Summary: Technique of lateral anastomosis between esophagus and fundus of stomach, proximal to obstruction at cardia. (Dr. John L. Madden).

Excision anal fissure, fistulotomy and hemorrhoidectomy, with caudal anesthesia (Motion picture) Davis & Geck, Inc., 1950.

32 mins., ed., color, 16 mm.

Summary: Illustrates technique and induction of caudal transverse anesthesia, and excision of anal fissure, fistulotomy and hemorrhoidectomy.

Excision of adenoma of the thyroid (Motion picture) Davis & Geck, Inc., 1953.

17 mins., ed., color, 16 mm.

Summary: Illustrates technique and induction of caudal transverse anesthesia, and excision of anal fissure, fistulotomy and hemorrhoidectomy.

Excision of thyroglossal duct cyst (Motion picture) Conrad John Baumgartner. Made by Davis & Geck, 1951. Released by Davis & Geck Film Library.

16 mins., ed., color, 16 mm.

Summary: Shows operative procedure on a dermoid cyst of the neck, with the thyroid with simple excision, and on a thyroglossal duct cyst with excision including the central section of the duct. For surgical.

MEDICINE—Surgery and Radiology

Exploring with X-rays (Motion picture) General Electric Co., 1941.

40 min., sd., b/w, 16 mm.
Summary: Dr. W. D. Coultage explains what makes X-rays, how they are produced, how scientists have experimented with them, and how they are used in medicine, dentistry, and industry.

Extracapsular operation for carcinoma of sigmoid (Motion picture) Billy Burke Productions, 1941.

17 min., sd., color, 16 mm.
Summary: Three-stage operation with elapsed time of three weeks. Loop of sigmoid and lymph gland bearing area of mesocolon, delivered into wound; three-bladed Rankin clamp applied, loop and mesocolon removed with cutting cautery. Constricting type of carcinoma shown by dissection of specimen. First postoperative day postural loop of sigmoid clamped to permit escape of gas; seventh postoperative day clamp has fallen off. Lightweight aluminum spur clamp applied; tightened each day. Eight days later spur is destroyed by pressure necrosis; clamp has fallen off. Twentieth postoperative day closure of colostomy completes operation.

Extracapsular pharyngeal incision (Motion picture) United States Department of Defense, United States Armed Forces Institute of Pathology, 1933.

23 min., sd., color, 16 mm. (Casebook Section Series)
Order no. PMP 9203.
Summary: Surgical procedures of casebook section, extracapsular pharyngeal incision; mechanical landmarks indicated throughout operation.

Extracapsular with chimney modification (Motion picture) United States Department of Defense, United States Armed Forces Institute of Pathology, 1933.

23 min., sd., color, 16 mm. (Casebook Section Series)
Order no. PMP 9204.
Summary: Surgical procedures of casebook section; mechanical landmarks indicated throughout operation.

False traumatic aneurysm of radial artery (Motion picture) U. S. Dept. of the Army, 1945.

19 min., sd., color, 16 mm.
Order no. PMP 9205.
Summary: Presents two cases of traumatic arterial aneurysm, one involving the radial and the other the brachial artery. Shows preoperative and postoperative findings and surgical technique.

Fascia lata repair of ventral incision hernia (Motion picture) Alfred H. Isaac, M. D., 1941.

9 min., sd., color, 16 mm.

Femoral hernia in the female (and) in the male (Motion picture) Raymond W. McNeely. Made and released by Mervin W. La Rue, Inc., 1919.

10 min., sd., color, 16 mm.
Summary: Identical operations for repair of femoral hernia in the female and male by means of a longitudinal incision parallel to the femoral vein, with removal of the sac and suture of Poyzner's ligament to the pectineus muscle. For surgeons and surgical residents.

Femoral nerve anastomosis (Motion picture) U. S. Dept. of the Army, 1948.

9 min., sd., color, 16 mm.
Order no. PMP 9206.
Summary: Explains findings on a preoperative examination of a femoral nerve injury and demonstrates operative technique used to close a non-defect. For medical personnel.

Fractures about the elbow (Motion picture) U. S. Veterans Administration, 1954. Made by Churchill-Weiler Film Productions.

30 min., sd., color, 16 mm.
Summary: Discusses the functional anatomy of the elbow joint and illustrates the displacing pull of the muscle groups as they affect different fractures. Describes the mechanism of typical elbow fractures, such as fractures of the supracondylar, intercondylar, distal humerus, and head of the radius, and demonstrates various types of treatment, including manipulation, traction, and open reduction.

Fractures about the forearm (Motion picture) Veterans Administration, 1955.

29 min., sd., color, 16 mm.
Order no. M-41.

Fractures about the wrist and hand (Motion picture) Veterans Administration, 1955.

30 min., sd., color, 16 mm.
Order no. M-41.

Fractures: an introduction (Motion picture) American College of Surgeons and Johnson & Johnson Research Foundation, 1945. Produced by Eddie Albert Productions.

29 min., sd., color, 16 mm.
Summary: A survey of the fundamentals of fracture pathology, of some principles of treatment, and of many points of therapeutic procedure. For medical students, student nurses, physical therapists, doctors, general practitioners.

Fractures of the femur about the hip joint (Motion picture) Veterans Administration, 1955.

21 min., sd., color, 16 mm.
Order no.

Fractures of the humerus (Motion picture) U. S. Veterans Administration, 1953. Made by Churchill-Weiler Film Productions.

26 min., sd., color, 16 mm.
Summary: Demonstrates the anatomy, physiology, and mechanics involved in various fractures of the humerus.

Gallbladder and bile ducts (Motion picture) Billy Burke Productions, 1941.

15 min., sd., color, 16 mm. (Surgical Anatomy Series)
Summary: Surgical anatomy encountered during biliary tract surgery. Right and wrong way of grasping common duct. All branches of hepatic artery followed in detail, as well as course of cystic, hepatic, and common ducts; demonstration of termination in ampulla of Vater. Dissection of unembalmed cadavers shows natural color and condition of tissues involved.

Gastric resection with ante-colic anastomosis for duodenal ulcer (Motion picture) Douglas Donath. Made and released by Billy Burke Productions, 1950.

15 min., sd., at sd. speed, color, 16 mm.
Summary: Shows the technique for anterior Duha type of total gastrectomy for duodenal ulcer, in which the duodenal lumen is covered to avoid damage to the transverse mesocolon. Shows fixation of the whole along the gastrotomy incision and ligating along the lesser curvature of the stomach, the closure of the duodenal stump, isolation and suturing of the antecolic border of the jejunal loop; and making the gastrojejunostomy. For medical profession.

The Halsted operation for carcinoma of the breast (Motion picture) Davis & Geck, 1953.

19 min., sd., color, 16 mm.
Summary: Demonstrates, with technical details, the four cardinal features emphasized by Halsted in a case requiring radical mastectomy: wide excision of the skin, thorough axillary dissection, removal of both pectoral muscles, and block dissection. For surgeons.

Heart-lung preparation (Motion picture) U. S. Dept. of the Army, 1950.

17 min., sd., color, 16 mm.
Order no. PMP 9170.
Summary: Demonstrates on an experimental animal the isolation of heart, lungs, and associated large blood vessels from the brain, abdominal viscera, and extracorporeal while maintaining heart beat under artificial respiration. For medical personnel.

Hemicolectomy for carcinoma of the right side of the colon: one stage procedure (Motion picture) Philip Thorpe, 1949.

27 min., sd., color, 16 mm.
Summary: Presents preoperative case material, a one-stage right hemicolectomy for excision of a non-obstructing adenocarcinoma of the ascending colon, and postoperative results. For surgeons.

Herniation of the intervertebral disk (Motion picture) Rupert H. Howe. Made and released by Billy Burke Productions, 1946.

11 min., sd., at sd. speed, color, 16 mm.
Summary: Discusses the history of radicular pain, finger spasm of the lower extremities, periodic urinary retention, bilateral Babinski signs, and dermatomal equivalents. An X-ray shows a large filling defect, suggesting cervical spinal stenosis. Shows how, after exposure by linear incision, the nucleus pulposus extrudes itself under pressure, and removal is completed with curette. For medical profession.

MEDICINE—Surgery and Radiology

Hernioplasty (Motion picture) Davis & Geck. Made by Leo M. Zimmerman, 1953. Released by Davis & Geck Surgical Film Library.

24 min., sd., color, 16 mm.
Summary: Shows the essential pathogenesis and pathological changes of the two forms of inguinal hernia. Shows methods of repair of direct and indirect hernias which fulfill the requirements of logical attack based on the pathology. For general surgeons.

Hypertension due to pheochromocytoma (Motion picture) Davis & Geck, 1950.

15 min., sd., color, 16 mm.
Summary: Demonstrates a technique for retroperitoneal, retroperitoneal exploration of the suprarenal area and removal of tumor without pressure of trauma to the tumor.

Hysterectomy: Three-quarter intrafascial technique (Motion picture) Davis & Geck, Inc., 1954.

27 min., sd., color, 16 mm.
Order no. CP-555.

Ileostomy (Motion picture) Davis & Geck, Inc., 1948.

18 min., sd., color, 16 mm.
Order no. 133.
Summary: Ileostomy for ulcerative colitis (Dr. Henry W. Cave).

Ileostomy and colectomy (Motion picture) Davis & Geck, Inc., 1948.

27 min., sd., color, 16 mm.
Order no. 138.
Summary: Ileostomy and colectomy stages of operation for ulcerative colitis (Dr. Henry W. Cave).

Implantation for enucleation (Motion picture) Clarence Although. Made and released by Billy Burke Productions, 1948.

16 min., sd., at sd. speed, color, 16 mm.
Summary: Demonstrates the advantages of implantation for enucleation. Shows how the muscles are attached to each other; how a cap on the eyelid exerts pressure on eyeballs; how a protective appliance; and how leverage is provided for muscles so that incision on the artificial eye is satisfactory. Points out that the surface appearance of the upper eyelid is obtained by the distribution of the weight of prosthesis between muscles and lids. For medical profession.

Inferior relations of the shoulder joint (Motion picture) Davis & Geck, Inc., 1950.

18 min., sd., color, 16 mm.
Order no. 494.
Summary: Graphic presentation of major operation with intrafascial approach to axillary neurovascular structures for carcinoma of stomach (Dr. Richard H. Sweet).

Inguinal hernia (Motion picture) Davis & Geck, Inc., 1945.

18 min., sd., color, 16 mm.
Order no. 431.
Summary: Location of inguinal ligament; anatomy of inguinal region; causes of indirect and direct inguinal hernia; diagnosis of each. How indirect and direct hernias are repaired surgically (Dr. F. M. Al Akt).

deepinal incision is made to avoid trauma to the symphysis pubis.

MEDICINE—Surgery and Radiology

Myxoid fungoides (Motion picture) U. S. Veterans Administration, 1952. Made by U. S. Dept. of Agriculture.

16 min., sd., color, 16 mm.
Summary: Discusses the histological development, classification, and clinical and histopathological features of various fungoides; emphasizes histological criteria for diagnosis; shows clinical appearance of the fungoides, and the various phases of the disease; and follows a case over a four-year period from early pre-neoplastic stages to malignancy. For medical personnel.

Nephropathy (Motion picture) Davis & Geck, Inc., 1959.

16 min., sd., color, 16 mm.
Order no. 218.
Summary: Nephropathy for pronounced nephropathy with blinding of water (Dr. Hugh H. Young).

Neurolysis of peroneal nerve (Motion picture) U. S. Dept. of the Army, 1948.

6 min., sd., color, 16 mm.
Order no. PMP 5003.
Summary: Explains that planning and care are essential to accomplish the proper incision in this operation; and shows the method of dissection between neurolysis and neurosurgery in electing surgery. For medical personnel.

Neurolysis of ulnar nerve in the lower arm (Motion picture) U. S. Dept. of the Army, 1948.

8 min., sd., color, 16 mm.
Order no. PMP 5004.
Summary: Describes the diagnostic findings and the surgical procedure followed in the case of a five-year-old injury to the ulnar nerve resulting from a laceration of the right lower arm. Also shows the application of physiotherapy in the treatment of nerve wounds. For medical personnel.

Neurothoraphy of median and ulnar nerves in mid-arm (Motion picture) U. S. Dept. of the Army, 1948.

12 min., sd., color, 16 mm.
Order no. PMP 5102.
Summary: Presents a detailed preoperative evaluation of damage to the right mid-arm traversed by a bullet. Colored by surgical repair of the median and ulnar nerves. For medical personnel.

Neurothoraphy of median and ulnar nerves in the left forearm (Motion picture) U. S. Dept. of the Army, 1948.

14 min., sd., color, 16 mm.
Order no. PMP 5005.
Summary: Gives clinical examination details of a left forearm shell fragment case with severed median and ulnar nerves, and the procedure for effecting repair. For medical personnel.

Neurothoraphy of ulnar neurolysis of median in arm (Motion picture) U. S. Dept. of the Army, 1948.

10 min., sd., color, 16 mm.
Order no. PMP 5007.
Summary: Demonstrates the exploration of the median and ulnar nerves in a case of incomplete paralysis of the median and ulnar nerves and complete paralysis of the radial nerve. For medical personnel.

Neurosurgery in an overseas general hospital (Motion picture) U. S. War Dept., 1946.

44 min., sd., color, 16 mm.
Order no. PMP 5014.
Summary: Shows neurosurgical problems in an overseas general hospital, including requirements for facilities for diagnosis, treatment, and post-operative care. For medical personnel.

One against the world (Motion picture) Metro-Goldwyn-Mayer, 1939. Released for educational purposes by Teaching Film Custodians, 1941.

11 min., sd., color, 16 mm. (Pleasing parade series)
Summary: A dramatization in which Dr. Robert McDowell, ridiculed by his profession and threatened by the neighbors who prepare to hang him on his own lawn, performs a major operation on a human being in Denton, Kentucky, on Christmas Day, 1939.

One stage right hemicolectomy (Motion picture) Davis & Geck, Inc., 1950.

31 min., sd., color, 16 mm.
Order no. 338.
Summary: Primary anatomical of transverse colon and ileum by end-to-end anastomosis; when it may be undertaken; operation shown. Specimen examined, to show lesion which proved to be carcinoma of cecum (Dr. William M. McMillan).

One-stage total colectomy for ulcerative colitis (Motion picture) George Gavin Miller. Made and released by Davis & Geck, 1952.

22 min., sd., color, 16 mm.
Summary: Illustrates the indications for surgical intervention for ulcerative colitis, and the advantages of a one-stage total colectomy over multiple procedures. Shows the complications requiring surgery, the operative technique, typical case results in a chart, and the handling of the ileum bag for the ileostomy. For surgeons.

Open reduction and internal fixation of forearm fractures (Motion picture) Davis & Geck, 1952.

33 min., sd., color, 16 mm.
Summary: Demonstrates in detail two procedures for operative reduction and internal fixation of forearm fractures: fixation by intramedullary device, and by plates and screws. For orthopedists.

Open reduction of tibia and fibula for malunion (Motion picture) Davis & Geck, Inc., 1947.

24 min., sd., color, 16 mm.
Order no. 431.
Summary: Application of 6-screw vitalium plate and iliac grafts to reduce fracture of tibia and fibula, four weeks old with partial union at time of operation (Dr. Edwin F. Cave, Carter R. Rowe).

Operation for indirect inguinal hernia (Motion picture)

Alfred H. Isaac, M.D., 1941.

9 min., sd., color, 16 mm.
Summary: Right inguinal incision made; external oblique aponeurosis divided; spermatic cord mobilized. Sac visualized; bluntly separated from cord. Sac opened; examined to ascertain that there are no adherent contents; then held tautly while cord is retracted upward. Very base of sac transfixed (with avoidance of injury to vas deferens); redundant part excised. External oblique aponeurosis closed with interrupted sutures. Lateral ligament anastomosis secured. Cord finally placed superficial to external oblique aponeurosis. Rits closed with black silk.

Operation for varicocele (Motion picture) U. S. Dept. of the Army, 1947.

11 min., sd., color, 16 mm.
Order no. PMP 5002.
Summary: Presents a case of a painful left varicocele involving an anterior group of veins. Demonstrates surgical treatment, similar in principle to ligature of spermatic vein for varicose veins of lower extremity. For medical personnel.

Operative cholangiography (Motion picture) U. S. Veterans Administration, 1955.

17 min., sd., color, 16 mm.
Summary: Explains that operative cholangiography is a diagnostic method for use during biliary surgery which provides a means for detecting overlooked common duct stones and liver radical cauli beyond the reach of instruments, bile diverting pancreatitis from carcinoma of the head of the pancreas, and can demonstrate spasm of the sphincter of Oddi as well as subsequent fibrosis on the biliary tract. Demonstrates each step of the complete operative cholangiography technique.

Operative procedure for total urinary incontinence (Motion picture) U. S. Dept. of the Army, 1952.

23 min., sd., color, 16 mm.
Order no. PMP 5202.
Summary: A demonstration of the use of muscular transplant for controlled pressure upon the bladder to overcome urinary incontinence.

Operative procedures for post-polio paralysis (Motion picture)

The National Foundation for Infants Paralysis, 1948.

50 min., sd., color, 16 mm.
Summary: Accepted surgical corrections for four post-polio complications: Epilepsy, arrest, knee fixation, Achilles tendon strengthening. For the medical profession only.

Operative treatment for Hirschsprung's disease (Motion picture)

Davis & Geck, Inc., 1950.

15 min., sd., color, 16 mm.
Order no. CS 42.
Summary: Resection of about half of sigmoid as well as rectum and rectosigmoid; anastomosis (Dr. Orvar Swenson).

Orbital recession operation for malignant exophthalmos (Motion picture) Howard Christian Naffziger. Made by Davis & Geck, 1951. Released by Davis & Geck Film Library.

35 min., sd., color, 16 mm.
Summary: Illustrates two types of preoperative enucleations with clinical and X-ray examination, followed by surgery and bone removal for orbital recession. For neurosurgeons and ophthalmologists.

MEDICINE—Surgery and Radiology

Palliative: Electrocoagulation of advanced cancer of the rectum (Motion picture) Tidor de Cholsky, M.D., 1940.
12 min., sd., color, 16 mm.
Summary: Technique of electrocoagulation for a selected group of advanced, recurrent cancer of rectum.

Palliative surgery in advanced cancer of the rectum (Motion picture) Tidor de Cholsky, M.D., 1940.

12 min., sd., color, 16 mm.
Summary: Technique of electrocoagulation for palliative treatment of advanced and recurrent cancer of the rectum.

Pancreato-duodenal resection for carcinoma of the head of the pancreas or carcinoma of ampulla of Vater (Motion picture) Davis & Geck, 1951.

48 min., sd., color, 16 mm.
Summary: Illustrates a two-stage pancreaticoduodenal resection, the first stage consisting of an enucleocholecystoduodenectomy. The second stage shows the block resection of the pancreato-duodenal area together with the restoration of gastrocolic continuity and anastomosis of the pancreatic duct to the jejunum.

Parotidectomy (Motion picture) Davis & Geck, Inc., 1951.

22 min., sd., color, 16 mm.
Order no. CS 618.
Summary: Superficial lobectomy for mixed tumor with preservation of facial nerve (Dr. Robert A. Wies).

Parotidectomy, superficial lobectomy for mixed tumor with preservation of the facial nerve (Motion picture) Robert Alexander Wies. Made by Davis & Geck, 1951. Released by Davis & Geck Film Library.

23 min., sd., color, 16 mm.
Summary: Illustrates and describes procedures for superficial lobectomy of the parotid gland for mixed tumor, with dissection and preservation of the facial nerve. For surgeons.

Partial neurothoraphy of the sciatic nerve in the buttock (Motion picture) U. S. War Dept., 1946.

12 min., sd., color, 16 mm.
Order no. PMP 5104.
Summary: Films set precautions essential to proper surgical management in the case of an injury to the peroneal component of the sciatic nerve resulting from a bullet wound. For medical personnel.

Partial resection of the stomach for duodenal ulcer (Motion picture) Davis & Geck, 1946.

33 min., sd., color, 16 mm.
Summary: Demonstrates a high sub-total resection for a posterior penetrating ulcer of the duodenum. Pre-operative X-rays demonstrate the duodenal cup deformity. Shows the mobilization of the duodenum and the direction of the ulcer from the pancreas, and demonstrates the closure of the duodenum and the use of the Von Yersin clamp in dividing the stomach. Includes an anastomotic gastroduodenal anastomosis utilizing the Hoffmeister technique.

Peptic ulcer (Motion picture) Wyeth, Incorporated, 1942.

45 min., sd., color, 16 mm.
Summary: Outstanding diagnostic and management problems peculiar to peptic ulcer.

MEDICINE—Surgery and Radiology

Pericardial resection for constrictive pericarditis (Motion picture) Davis & Geck, 1948.

43 min., 41, color, 16 mm.
Summary: Shows the performance of a pericardiectomy in detail in one case and sections of thickened pericardium in another case. For residents learning cardiac surgery and cardiac surgeons.

Pericardiectomy for chronic cardiac compression due to constrictive pericarditis (Motion picture) Rutting A. Griswold, Malcolm L. Barnes, and Harold F. Berg, 1948. Made by University of Louisville School of Medicine.

31 min., 41, color, 16 mm.
Summary: Presents cases of chronic cardiac compression seen preoperatively, at operation, and post-operatively.

Peripheral nerve surgery. Part 1: Sciatic nerve (Motion picture) U. S. Dept. of the Army, 1947.

20 min., 41, color, 16 mm.
Order no. PMP 6001.
Summary: Shows the management of a typical peripheral nerve injury seen of the World War II period, including preoperative, surgical, postoperative, and follow-up care.

Peritoneoscopy (Motion picture) R. Nichol Smith, M and released by Billy Burke Productions, 1941.

16 min., 41, color, 16 mm.
Summary: Demonstrates use of the peritoneoscope. Shows normal and certain pathological structures in the abdomen as seen through the peritoneoscope, the technique of biopsy of suspected neoplasms, and certain pathological conditions such as metastatic implants, ovarian fibroids, cholecystitis, diverticula of the ileum, diverticula of the sigmoid, and acute appendicitis. For medical profession.

Peritonitis (Motion picture) Billy Burke Productions, 1941.

15 min., 41, color, 16 mm. (Surgical Anatomy Series).
Summary: Shows a facilitating exposure of various intra-abdominal organs by freeing relatively avascular peritoneal attachments. How to mobilize the duodenum for gastro-duodenal surgery. Method of removing difficult retrocecal appendix, and of resecting cecum. Dissection on unembalmed cadavers reproduces natural color and condition of tissues involved.

Personal nerve anastomosis at the knee (Motion picture) U. S. Dept. of the Army, 1948.

7 min., 41, color, 16 mm.
Order no. PMP 6002.
Summary: Demonstrates a case of the personal nerve anastomosis at the knee with evident foot drop and loss of sensation on the dorsum of the foot. Shows the technique used to effect repair. For medical personnel.

Plastic repair of thigh stump (Motion picture) U. S. War Dept., 1948.

9 min., 41, color, 16 mm.
Order no. PMP 6003.
Summary: Shows a type of plastic repair of a thigh stump, utilized on occasions where certain anatomical factors limit the operator's choice. For medical personnel.

Pneumectomy for carcinoma (Motion picture) Davis & Geck, Made by William E. Adams, 1953. Released by Davis & Geck Surgical Film Library.

36 min., 41, color, 16 mm.
Summary: Covers diagnosis, pathology, and surgical technique of total pneumectomy for primary carcinoma of the lung, emphasizing postoperative diagnosis and pathological characteristics through the use of X-ray studies. Deals with operative approach, demonstration of anatomical structures and relations, pathological lesions encountered, and shows dissection of the hilar structures and management of the large vessels as well as the bronchial stump. For thoracic surgeons.

Portacaval shunt (Motion picture) John Filter Heaney, Made by Davis & Geck, 1951. Released by Davis & Geck Film Library.

21 min., 41, color, 16 mm.
Summary: Illustrates the technique of a portacaval shunt through a right thoracoabdominal approach; demonstrates anatomical relationships. For vascular surgeons.

Prefrontal lobotomy for agitated-depressive state (Motion picture) Davis & Geck, Inc., 1947.

26 min., 41, color, 16 mm.
Order no. 5071.
Summary: Technique used in performing prefrontal lobotomy under direct vision (Dr. James L. Pappas).

The preparation and insertion of tantalum plate (Motion picture) U. S. War Dept., 1946.

30 min., 41, color, 16 mm.
Order no. PMP 6004.
Summary: Demonstrates the preparation for and the insertion of a tantalum plate in the skull. For medical personnel.

Primary hyperparathyroidism due to parathyroid adenoma (Motion picture) Davis & Geck, 1951.

31 min., 41, color, 16 mm.
Summary: Presents a case hyperparathyroidism, demonstrating the clinical manifestations of the disease and presenting the method of diagnosis and all laboratory data. Shows the operation and the final clinical appearance of the patient.

Principles of fracture reduction (Motion picture) U. S. Veterans Administration, 1953. Made by Churchill-Wexler Film Productions.

31 min., 41, color, 16 mm.
Summary: Shows by reduction the anatomy in various fractures of the long bones, and demonstrates methods of reduction on individual fractures by traction, counter-traction, and suspension. Emphasizes that the principles of fracture reduction can be applied in any farm house with the materials at hand.

Purposeful splinting (Motion picture) Davis & Geck, Inc., 1941.

17 min., 41, color, 16 mm.
Order no. 150.
Summary: Injuries of hand including injury of soft parts (Dr. Sumner I. Koch and Associates).

Pyloromyotomy for infantile pyloric stenosis (Motion picture) John L. Madden. Made and released by Sturgis-Grant Productions; made 1950.

17 min., 41, color, 16 mm.
Summary: The technique of a Hamsted pyloromyotomy for hypertrophic pyloric stenosis. Shows the lesion, the signs and symptoms characteristic of infantile pyloric stenosis. A brief history of the development of the operation, a case history, and the method of palpating the tumor. For students of surgery and pediatrics.

Quadruple ligation and excision of fistula of femoral vessels (Motion picture) U. S. Department of Defense, Armed Forces Institute of Pathology, 1948.

17 min., 41, color, 16 mm.
Order no. PMP 6005.
Summary: Surgical management of case resulting from high explosion of shell fragment approximately six months prior to operation.

Radial nerve injury in mid-arm (Motion picture) U. S. Dept. of the Army, 1948.

7 min., 41, color, 16 mm.
Order no. PMP 6006.
Summary: Demonstrates a case of an arm wound which paralyzed the radial nerve supply to the forearm and to the hand; shows operative technique used to effect repair, and postoperative findings. For medical personnel.

Radical groin dissection malignant melanoma (Motion picture) Jack M. Ferris. Made and released by Billy Burke Productions; made 1951.

17 min., 41, color, 16 mm.
Summary: Demonstrates radical groin dissection for localized malignant melanoma, with removal of lymphatic elements in the femoral ligament and along the exposed iliac vessels. For surgeons.

Radical neck dissection for carcinoma (Motion picture) Frank H. Leaky. Made by Davis & Geck. Released by Surgical Film Library, Davis & Geck, and Professional Film Loan Library, American Cancer Society, 1949.

18 min., 41, color, 16 mm.
Summary: Records a method of performing a neck dissection for carcinoma of the thyroid gland, including the indications for and anatomical scope of the operation. For surgeons.

Radical operation for cancer of the cervix (Wertheim's operation) (Motion picture) Davis & Geck, 1947.

31 min., 41, color, 16 mm.
Summary: A record of a Wertheim operation for carcinoma of the cervix, as performed by the author of the film. For gynecologists, general surgeons, oncologists, residents in surgery and medical students.

Radical operation for carcinoma of the cervix (Motion picture) Joseph W. Kels, 1948.

32 min., 41, color, 16 mm.
Summary: A film report of the performance of a Wertheim operation, introduced by diagrams indicating the classification and resectability of cervical carcinoma. For gynecologists, general surgeons, oncologists and residents in surgery.

MEDICINE—Surgery and Radiology

Radical orchidectomy (Motion picture) U. S. War Dept., 1946.

15 min., 41, color, 16 mm.
Order no. PMP 6007.
Summary: Demonstrates the technique for surgical removal of testis following an injury, or for removal of a malignancy. For medical personnel.

Radical pelvic evisceration and bilateral groin dissection for pelvic cancer (Motion picture) George T. Pack and Theodore R. Miller. Made and released by Sturgis-Grant Productions, 1952.

53 min., 41, color, 16 mm.
Summary: In a case of pelvic cancer shows how an abdominal incision permits mobilization of pelvic contents, with formation of a midline sigmoid colectomy and bilateral ureterocolic; the contents of both terminal trunks are dissected free; the contents of the iliocecal fossa are dissected; and the total pelvic contents are removed. The patient is seen postoperatively. For surgeons.

Radical resection of the maxilla and orbit with early prosthetic restoration (Motion picture) U. S. Veterans Administration, 1953.

10 min., 41, color, 16 mm.
Summary: Demonstrates in a patient with a carcinoma of the maxillary sinus, a surgical technique for radical resection of the superior maxilla. Shows a Weber-Ferguson type of incision, elevating the cheek in a single flap. Irradiates the cheek because of tumor extension, the eye and orbit are enucleated. After removal of the maxilla, the cheek flap is lined with a split thickness skin graft to hasten healing. One week postoperatively a respiratory acrylic collar is inserted to allow retraction of pharynx and deglutition. Shows details of the final upper denture prosthesis with obturator attachment, and demonstrates the result after three years.

Radical surgery for advanced lung cancer (Motion picture) Sturgis-Grant Productions, Inc., 1954.

33 min., 41, color, 16 mm.

Reconstruction of nose (Motion picture) Davis & Geck, Inc., 1943.

22 min., 41, color, 16 mm.
Order no. 375.
Summary: Epithelial inlay for injury sustained in air raid (Dr. John M. Converse).

Reconstruction of the esophagus by jejunal transplant (Motion picture) Ross Robertson. Made by Davis & Geck, 1951. Released by Davis & Geck Film Library.

50 min., 41, color, 16 mm.
Summary: Shows reconstruction of the esophagus by a jejunal transplant brought up through a mediastinal tunnel; gives indications for employment of procedure. For surgeons.

Reconstruction of the floor of the orbit (Motion picture) Davis & Geck, 1949.

16 min., 41, color, 16 mm.
Summary: Presents a reconstruction of the floor of the orbit for diplopia following fracture, employing a bone graft obtained from the ilium. For ophthalmologists, plastic surgeons, and residents in these specialties.

MEDICINE—Surgery and Radiology

Reconstruction of the lower lip and chin (Motion picture)
U. S. Dept. of the Army, 1947.

20 min., ed. color, 16 mm.
Order no. PAIP 5055.
Summary: Demonstrates the methods used in a reconstruction of the lower lip and chin, showing all phases of restoration in a case in which two-thirds of the lower lip, chin, and mandible were destroyed by skull fragments. For medical personnel.

Reduction of intussusception by barium enema (Motion picture)
Davis & Gock, 1952.

21 min., ed. color, 16 mm.
Summary: Demonstrates the mechanism of intussusception, the technique of administering a barium enema to an infant for reduction of an intussusception, as observed with continuous fluoroscopic examination of the fluoroscopic tube. For surgeons, pediatricians, radiologists.

Regional ileitis: Treatment by resection and primary anastomosis between the ileum and the ascending colon (Motion picture)
Davis & Gock, 1952.

22 min., ed. color, 16 mm.
Summary: Presents histological and X-ray features of regional ileitis with clinical symptoms and course of the disease, and technique of resection with anastomosis of bowel. For surgeons.

Removal of lower lumbar-intervertebral discs (Motion picture)
Paul H. Hanson, M.D., 1949.

12 min., ed. color, 16 mm.
Summary: Operation on an anterior extraperitoneal approach, described and illustrated. Offending intervertebral disc removed under direct vision; disc substance replaced by bone graft.

Repair of a post-operative ventral hernia with Surgaloy stainless steel mesh (Motion picture)
Davis & Gock, 1951.

27 min., ed. color, 16 mm.
Summary: Demonstrates a technique for using Surgaloy stainless steel mesh to repair an extensive ventral hernia.

Repair of bladder hernia (Motion picture)
Alfred H. Jasson, 1945. Made by Bergman Associates.

17 min., ed. color, 16 mm.
Summary: The coepest surgical repair of two hernias of the bladder caused by diverticula. For urological surgeons.

Repair of burn contracture of neck (Motion picture)
Davis & Gock, Inc., 1940.

14 min., ed. color, 16 mm.
Order no. 114.
Summary: Use of free full-thickness graft, four months following burn originally treated with tannic acid (Dr. J. Darrell Brown and F. McDowell).

Repair of false arterial aneurysm (Motion picture)
U. S. Department of Defense, Armed Forces Institute of Pathology, 1948.

11 min., ed. color, 16 mm.
Order no. PAIP 5054.
Summary: Small aneurysm of posterior tibial vessels repaired by ligation and excision. Method of ligation applied by aneurysm of brachial artery.

Repair of inguinal hernia (Motion picture)
Winthrop Stearns, 1951.

45 min., ed. color, 16 mm. (Surgical residency series)
Summary: Demonstrates the operative technique in four cases: a 55-year-old man with a direct hernia, a 55-year-old man with a right indirect hernia, a moderately obese woman with a bulging in the femoral area which surgery disclosed as a fatty hernia, and a 58-year-old man with a large scrotal hernia of 50 years' duration.

Repair of median nerve (Motion picture)
Joseph Boyes.

13 min., ed. at ed. speed, color, 16 mm.
Summary: Shows dissection of an old, post-traumatic nerve in a field which had been joined to one of the digital nerves of the hand, and which had been joined to one of the digital nerves of the hand. The nerve is freed, and the deep flexor tendon of the long finger is repaired by a free tendon graft taken from the soleus of the same finger. Shows approximation of the distal ends of the nerve, the same finger. Shows approximation of the distal ends of the nerve, and application of plaster to maintain position, and postoperative results several months later. Demonstrates a tendon transplant procedure to provide opposition of thumb, and indicates three forms of postoperative results, showing action of fingers. For medical profession.

Repair of recto-urethral fistula (Motion picture)
U. S. Dept. of the Army, 1947.

8 min., ed. color, 16 mm.
Order no. PAIP 5058.
Summary: Portrays a case with injury to the large and small intestine, the bladder, ureters, and rectum, caused by bullet wounds. Shows exploratory laparotomy near, cystostomy, colostomy, and abdominal fistula wounds. Features closure of complete fistula by use of the Whitehead principle of advancement of the rectum. For medical personnel.

Repair of ruptured membranous urethra (Motion picture)
U. S. War Dept., 1946.

8 min., ed. color, 16 mm.
Order no. PAIP 5052.
Summary: Demonstrates a surgical method of repairing a ruptured membranous urethra. For medical personnel.

Repair of skull defects with tantalum plates (Motion picture)
U. S. Dept. of the Army, 1948.

10 min., ed. color, 16 mm.
Order no. PAIP 5058.
Summary: Demonstrates technique of repairing skull defects with tantalum plates. Shows how to make the impression for the plate, the performance of the operation, insertion of the plate in two operations, and postoperative results. For medical personnel.

Resection of a congenital diverticulum of the left ventricle (Motion picture)
Willis J. Potts and Arthur De Boer.

12 min., ed. color, 16 mm.
Summary: Presents an 11-year-old boy with a pulsating cystic mass diagnosed as congenital diverticulum of the left ventricle; demonstrates operative steps of resection, and postoperative recovery.

Resection of mandible for ameloblastoma (Motion picture)
U. S. Veterans Administration, 1955.

22 min., ed. at ed. speed, color, 16 mm.
Summary: Shows a hemimandibulectomy for the treatment of a recurrent ameloblastoma. Points out that a previously constructed titanium prosthesis, replacing the condyle, the ascending ramus, and the body of the mandible from the right second molar to the apex, was used to preserve symmetry and function of the jaw.

Resection of right colon for carcinoma (Motion picture)
Davis & Gock, 1950.

14 min., ed. color, 16 mm.
Summary: Points out that malignant lesions of the right colon should never have less than a resection of the entire right colon, with approximately 25 cm. of the terminal ileum, and that the question should be carried to the mid-transverse colon, removing all of the lymph node spread of any lesion of the right colon that is curable.

Resection of the upper pole of a double kidney (Motion picture)
Davis & Gock, Inc., 1947.

13 min., ed. color, 16 mm.
Order no. 157.
Summary: X-ray of double left kidney; skin incision, incising Gerota's fascia, isolating and clamping artery to double pole, ligation of upper ureter, ligation of upper pole artery, inserting drains and closing wound (Dr. Elmer Hess and Associates).

Resection of vagus nerves—Trans-thoracic approach (Motion picture)
Sturgis-Grant Productions, Inc., 1950.

15 min., ed. color, 16 mm.
Summary: Trans-thoracic approach for resection of vagus nerves. Indication for surgery was gastro-esophageal sternal or marginal ulcer present for nine and a half years. Patient in direct right lateral position; surgical approach through left eighth interspace. No rib resection. Flural cavity entered, lung collapsed, esophageal triangle demonstrated. Inferior pulmonary ligament doubly clamped and divided, giving access to posterior mediastinal space. Peri-esophageal areolar tissue dissected; underlying esophagus exposed. By incision of esophagus, left or anterior vagus nerve visualized and isolated; then the right. Four centimeter sections of each removed. Mediastinal space left open; wound closed in layers without drainage. (Dr. John L. Madden).

Retropubic prostatectomy (Motion picture)
McCleary Glazier.

15 min., ed. at ed. speed, color, 16 mm.
Summary: Shows the anatomy of the bladder, prostate, and retropubic space, excision of the adenoma and removal by blunt dissection; and resection of a V-shaped wedge from the posterior commissure of the bladder neck for prevention of prolonged suprapubic urinary drainage. For medical profession.

Revascularization of the heart (Motion picture)
Claude S. Beck, 1951.

20 min., ed. color, 16 mm.
Summary: Reports an experimental method for arterIALIZING the veins of the heart by means of free vein graft from the aorta to the coronary sinus, demonstrated on the hearts of dogs and a patient.

Right pneumonectomy (Motion picture)
Davis & Gock, Inc., 1940.

20 min., ed. color, 16 mm.
Summary: Demonstrates a right pneumonectomy for primary carcinoma of the lung, showing anatomical features. Points out the importance in the right upper lobe. For professional group only.

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Right suprarenary kidney: Removal through transverse abdominal incision (Motion picture)
Charles Montgomery Stewart. Made and released by Billy Burke Productions, 1948.

12 min., ed. at ed. speed, color, 16 mm.
Summary: Shows method of diagnosis, preoperative, removal of the kidney, and specimen. For medical profession.

Rupture of the rotator cuff (Motion picture)
Davis & Gock, Inc., 1940.

45 min., ed. color, 16 mm.
Order no. 164.
Summary: Rotator cuff defined; illustrated by drawing and on cadaver; diagnosis of an operation for rupture of supraspinatus and infraspinatus tendons (Dr. H. F. Noyes).

Safer gastrectomy operative procedure (Motion picture)
Levin A. Alcorn. Made by Billy Burke Productions. Released by Seal-Ins Laboratories, 1946.

11 min., ed. color, 16 mm.
Summary: Is a fresh cadaver shows a technique of subtotal gastrectomy, illustrating the use of Alcorn's C-clamp for prevention of traction, illustrating the use of Alcorn's C-clamp for prevention of traction, illustrating the use of Alcorn's C-clamp for prevention of traction. Shows the T-tube being employed in a operative case. For surgeons.

Scalenotomy (Motion picture)
Davis & Gock, Inc., 1938.

19 min., ed. color, 16 mm.
Order no. 221.
Summary: Symptoms in cervical rib; pulse volume recorded; X-ray findings. Adams-Coffey operation (Dr. Alton Graham).

Scollis' method of correction and fusion (Motion picture)
Sturgis-Grant Productions, Inc., 1951.

30 min., ed. color, 16 mm.
Summary: Surgical treatment of idiopathic scoliosis. Patient (fourteen year old girl) followed from entrance into hospital, through correction in turntable jacket, to operation (archade of corrected curve). Nine months postoperatively patient shows getting along comfortably without spinal support. Degree of correction of various curves plotted on roentgenograms. (Dr. John R. Cobb, Philip D. Wilson).

Segmental pulmonary resection (Motion picture)
Davis & Gock, Inc., 1950.

18 min., ed. color, 16 mm.
Order no. CS 222.
Summary: Segmental pulmonary resection demonstrated in five different operations upon five different patients (Dr. Richard H. Overholt).

Side-to-side anastomosis of portal vein to vena cava (Motion picture)
Arthur H. Blakemore, 1948. Made by Sturgis-Grant Productions.

14 min., ed. color, 16 mm.
Summary: Presents the principal steps of a portacaval shunt approach for the treatment of portal hypertension by side-to-side anastomosis of portal vein to vena cava.

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Simple anterior closure of colostomy (Motion picture) U. S. Dept. of the Army, 1947.

10 min., ed., color, 16 mm.
 Order no. 1117 5070.
 Summary: Demonstrates an incomplete colostomy of the transverse colon, using a relatively simple closure procedure; stresses the advantages of using an intraperitoneal approach. For medical personnel.

Simple anterior closure of transverse colostomy (right side) (Motion picture) U. S. Dept. of the Army, 1947.

23 min., ed., color, 16 mm.
 Order no. 1117 5000.
 Summary: Explains that right side colostomies are less frequent than left side colostomies, pointing out the similarity in procedure to those followed in anastomosis. Demonstrates typical problems and applicable surgical techniques, and some World War II developments in the surgical management of colostomies. For medical personnel.

Skin grafting (Motion picture) Davis & Geck, Inc., 1942.

33 min., ed., color, 16 mm.
 Order no. 373.

Skin grafting of extensive burns (Motion picture) Eaton Laboratories, 1951.

22 min., ed., color, 16 mm.
 With transcript of narration.
 Summary: Shows the treatment of a patient with extensive third-degree burns by frequent dressings, debridement, skin grafting, and use of a "prophylactic" "Pneumax" as performed at the University of Kansas Medical Center. For surgeons.

Spaulding-Richardson composite operation for uterine prolapse and allied conditions (Motion picture) Davis & Geck, Inc., 1952-53.

33 min., ed., color, 16 mm.
 Order no. CS 387.

Spinal fusion with osteoplastic graft (Motion picture) Paul McMaster, Made and released by Billy Burke Productions, 1951.

37 min., ed., at ed. speed, color, 16 mm.
 Summary: Demonstrates surgical procedure of spinal fusion for tuberculous spine. Shows graft removed from ilium, and X-rays of post-operative results, with spinal mobility demonstrated by the patient 4 months, and again 7 years after the operation. For medical profession.

Splenectomy (Motion picture) Philip Thorek, 1951.

23 min., ed., at ed. speed, color, 16 mm.
 Summary: Demonstrates splenectomy in a case of hyperplenism, and discusses the embryology and surgical anatomy, the surgical procedure, and pathology of the disorder. Includes the case history of the patient. For surgeons.

Splenectomy for congenital hemolytic anemia (Motion picture) Davis & Geck, 1951.

28 min., ed., color, 16 mm.
 Summary: Depicts postnatal anastomosis between the end of the splenic vein and the side of the renal vein.

Splenectomy for Gaucher's disease (Motion picture) Edward M. Pallette. Made and released by Billy Burke Productions, 1941.

15 min., ed., at ed. speed, color, 16 mm.
 Summary: Discusses symptoms of the disease; and indications for splenectomy. Shows how a triangle drape is used to permit a long left rectus incision with transverse T modification, providing adequate exposure for removal of the tremendously enlarged spleen. Demonstrates the step-by-step ligation of vessels and removal of 2 kilograms of spleen, the pulp being almost entirely replaced by fat containing Gaucher's cells. For medical profession.

Splenectomy for splenomegaly (Motion picture) Raymond W. McNeely. Made and released by Mervin W. La Rue, Inc., 1949.

15 min., ed., color, 16 mm.
 Summary: Shows left subcostal approach and method of delivery of an enlarged spleen from incision; demonstrates large accessory spleen at the hilum. For surgeons and surgical residents.

Splenectomy in the treatment of hypersplenism (Motion picture) Davis & Geck, Inc., 1954.

21 min., ed., color, 16 mm.
 Order no. CS 845.

Splenorenal anastomosis for portal hypertension (Motion picture) Davis & Geck, 1950.

19 min., ed., color, 16 mm.
 Summary: Describes operation for relief of cirrhosis of the liver by anastomosing the renal vein to the splenic vein.

Spleno-renal anastomosis with autologous vein graft (Motion picture) Louis M. Rousslet, 1951. Made by Sturgis-Grant Productions.

21 min., ed., color, 16 mm.
 Summary: Records a case of spleno-renal anastomosis with autologous vein graft for surgical relief of portal hypertension.

Story of appendicitis (Motion picture) University of Iowa. Made and released by Rutgers Films, 1949.

23 min., ed., color, 16 mm. (Medical film)
 Kodachrome.
 Summary: Shows a typical case of appendicitis from the lumen's point of view, and outlines important aspects of the case: its diagnosis and treatment. Follows the case from the onset of abdominal pain through the usual hospital routine—examination, laboratory work, preparation of patient for the operation, the operating room, the operation, and the patient at intervals during an uncomplicated recovery. Comparison is made between this case, properly treated, and another case in which enteric oil was given resulting in rupture of the appendix.

Stricture of the common bile duct; repair with end-to-end anastomosis (Motion picture) Davis & Geck, 1950.

27 min., ed., color, 16 mm.
 Summary: Demonstrates the technique of repair of the common bile duct five weeks after being injured at a previous operation.

Subdiaphragmatic abscess (Motion picture) Davis & Geck, Inc., 1954.

16 min., ed., color, 16 mm.
 Order no. CS 121.

Subdural hematoma (Motion picture) Davis & Geck, Inc., 1945.

18 min., ed., color, 16 mm.
 Order no. 107.
 Summary: Subdural hematoma, case history; operation demonstrated (Dr. Rudolph Jaeger).

Subtotal colectomy and ileostomy for ulcerative colitis (Motion picture) Davis & Geck, Inc., 1951.

16 min., ed., color, 16 mm.
 Order no. 426.
 Summary: Subtotal colectomy and ileostomy for ulcerative colitis; one-stage operation removes all colon down to low sigmoid and establishes endileostomy (Dr. George Cline, Jr.).

Subtotal gastrectomy (Motion picture) Davis & Geck, Inc., 1941.

26 min., ed., color, 16 mm.
 Order no. 547.
 Summary: For gastroduodenal ulcer; resection with antecolic anastomosis and V-closure of jejunum (Lobley Clisio).

Subtotal gastrectomy (Motion picture) Davis & Geck, Inc., 1941.

25 min., ed., color, 16 mm.
 Order no. 147.
 Summary: Subtotal gastrectomy for perforating duodenal ulcer with antero-colic anastomosis (Lobley Clisio).

Subtotal gastrectomy (Motion picture) Davis & Geck, Inc., 1951.

25 min., ed., color, 16 mm.
 Order no. 147.
 Summary: Subtotal gastrectomy for duodenal ulcer perforating into the pancreas (Dr. Joel W. Baker).

Subtotal gastrectomy (Motion picture) Sturgis-Grant Productions, 1951.

35 min., ed., color, 16 mm.
 Summary: Presents a case of chronic duodenal ulcer with partial obstruction, managed by subtotal gastrectomy with antecolic gastrojejunostomy by modification of the Belsey-Nix-Baker method. For surgeons.

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Subtotal gastrectomy (Motion picture) Philip Thorek, 1950.

24 min., ed., color, 16 mm.
 Summary: Demonstrates the performance of the Polya method of subtotal gastrectomy for gastric carcinoma, supported by anatomical drawings. For residents and interns in surgery, and medical students.

Subtotal gastrectomy for perforating duodenal ulcer (Motion picture) Alfred H. Isaac, M. D., 1948.

18 min., ed., color, 16 mm.
 Summary: One surgical technique for perforating duodenal ulcer. Upper right rectus incision made. In first "case" duodenal ulcer is seen adherent to gallbladder laterally and to pancreas, posteriorly. Ulcer is non-resectable. Anticolic isoperistaltic subtotal gastrectomy is carried out; various anatomic structures seen in detail. In second real subtotal gastrectomy is seen, for removable duodenal ulcer in which aforementioned procedure was accomplished. Results indicated.

Subtotal thyroidectomy: Demonstrating laryngeal nerve (Motion picture) James R. Johnson. Made and released by Billy Burke Productions, 1949.

15 min., ed., at ed. speed, color, 16 mm.
 Summary: Shows the anatomy involved, and surgical procedure in detail. For medical profession.

Subtotal thyroidectomy for adenomatous goiter with secondary hyperparathyroidism (Motion picture) Davis & Geck, 1950.

21 min., ed., color, 16 mm.
 Summary: Presents the technique of subtotal thyroidectomy for adenomatous goiter with secondary hyperparathyroidism. Shows lateral high division of the thyroid gland with white lateral retractor of the thyroid gland. Exposure is made of the inferior thyroid artery with ligature in continuity, exposure of the parathyroid and removal of largest mass. Relatively small remnants are left and folded in the tracheal folds.

Sucking wounds of the chest (Motion picture) U. S. Dept. of the Navy, 1953. Made by Jam Handy Organization.

12 min., ed., color, 16 mm.
 Order no. MN 747.
 Summary: Five important steps necessary in prompt and proper treatment for a sucking chest wound are demonstrated by means of a simulated casualty on the battlefield.

Suction socket artificial limb (Motion picture) U. S. Veterans Administration, 1951.

24 min., ed., color, 16 mm.
 Summary: Describes a recently developed unarmored prosthesis for amputees amputated, held on by a slight negative pressure in the closed socket and by adherence of the stump to the socket walls. Stresses the need for coordinated effort by the amputee, surgeon, and limb-fitter. Device necessary pain training; and approves the benefits of suction socket prosthesis. For medical personnel.

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Support of paralyzed face with fascia (*Motion picture*) Davis & Geck, 1946.

23 min., st., color, 16 mm.
 Summary: Shows a series of cases of facial paralysis resulting from a number of causes including congenital, traumatic, and post-operative. Demonstrates the surgical technique for removal of the facial nerve and the attachment of the temporalis muscle to the upper and lower lip on the paralyzed side. Illustrates the use of the upper and lower lip on the paralyzed side. For professional use and postoperative results in a group of cases. For professional groups only.

Supra-aortic esophagostomy for carcinoma of the midportion of the esophagus (*Motion picture*) Philip Thorek; made 1948.

38 min., st., color, 16 mm.
 Summary: Presents the history, X-rays, and esophagoscopy of a carcinoma of the midportion of the esophagus; demonstrates the removal of the carcinoma with the technique of mobilization of the stomach and its anastomosis to the remaining supra-aortic segment; shows patient postoperatively. For surgeons.

Supradiaphragmatic gastric vagotomy for peptic ulcer; Dragstedt. Made and released by Davis & Geck; made 1948.

20 min., st., color, 16 mm.
 Summary: Through drawings illustrates the operative procedure of vagotomy and the anatomy of the vagus nerves; demonstrates the operative technique of transabdominal vagotomy for chronic duodenal peptic ulcer without obstruction; and indicates postoperative care. For surgeons and general practitioners.

Supraomohyoid neck dissection (*Motion picture*) Davis & Geck, 1950.

15 min., st., color, 16 mm.
 Summary: Describes removal of cervical lymph node metastases following operation for carcinoma of the lip.

Surgery for direct inguinal hernia (*Motion picture*) Alfred H. Jacon, M.D., 1941.

9 min., st., color, 16 mm.
 Summary: Salient features of anatomy of inguinal area; ilioinguinal, iliohypogastric and genitofemoral nerves and inferior epigastric vessels in normal relationships. Operation for direct inguinal hernia from incision to placing of final suture between two margins of external oblique aponeurosis to include Cooper's ligaments. Skin closed with black silk.

Surgery for massive hemorrhage from gastroduodenal ulcer (*Motion picture*) Davis & Geck, 1952.

33 min., st., color, 16 mm.
 Summary: Tabulates the five year clinical data concerning immediate blood replacement and gastric resection for a severely bleeding gastroduodenal ulcer; presents laboratory data with preoperative blood volume findings; and illustrates surgical techniques through gastric resection of a penetrating posterior wall duodenal ulcer and a gastric ulcer. For surgeons.

Surgery in facial cancer (*Motion picture*) Tibor de Cholskoy, M.D., 1946.

13 min., st., color, 16 mm.
 Summary: Radical excision of posttraumatic recurrent cancer of lip of nose; immediate reconstruction of the loss of the nose using pedicled skin flap from cheek and forehead. Complete follow up postoperative management to eight years. Recurrent advanced cancer of orbit (cheek and nose, involving paranasal sinuses) treated by electrocoagulation followed by plastic reconstruction by temporal arterial flap. Follow up, twelve years.

Surgery of the biliary tract (*Motion picture*) Davis & Geck, Inc., 1941.

24 min., st., color, 16 mm.
 Order no. 444.
 Summary: Diagnosis: cholecystectomy for cholelithiasis and for cholelithiasis, demonstrated (Dr. Ralph Betman).

Surgery of the common bile duct (*Motion picture*) Davis & Geck, Inc., 1941.

46 min., st., color, 16 mm.
 Order no. 144.
 Summary: Diagnosis and pathology of disease of common bile duct requiring surgery; operations commonly employed. Animations demonstrate changes in bile flow in presence of strictures, stones, tumors (Dr. Charles B. Fuestow).

Surgical anatomy of stomach and pancreas (*Motion picture*) Conrad Baumgartner. Made and released by Billy Burke Productions, 1942.

15 min., st., st. & sp., color, 16 mm.
 Summary: Demonstrates surgical anatomy on a cadaver, showing stomach, greater omentum, transverse colon, transverse mesocolon, lesser peritoneal cavity and pancreas, splenic artery, etc. Presents details of blood supply of the stomach from three branches of the celiac axis, and demonstrates a method of performing a gastroenterostomy. For medical profession.

Surgical anatomy of subaxillary and suprascapular areas (*Motion picture*) Conrad Baumgartner. Made and released by Billy Burke Productions, 1942.

15 min., st., st. & sp., color, 16 mm.
 Summary: Demonstrates, in two separate dissections, the surgical anatomy on a cadaver. Exposes deep cervical fascia, brachial plexus, axillary artery and vein, subscapular artery and vein, etc. Shows location and relation of the jugular vein, branches of the cervical plexus, brachial plexus, subclavian artery and vein, etc. For medical profession.

Surgical anatomy of the female perineum: Cadaver demonstration (*Motion picture*) Russell T. Bergman and Elton L. Morel. Made by Davis & Geck, 1952. Released by Davis & Geck Film Library.

22 min., st., color, 16 mm.
 Summary: An anatomical study of the female perineum on fresh cadaver material; anatomical structures are dissected to emphasize their surgical significance. For gynecologists.

Surgical anatomy of the femoral triangle (*Motion picture*) Dept. of Visual Education, College of Medical Evangelists.

Released by Davis & Geck, 1947.
 29 min., st., color, 16 mm.
 Summary: Presents the surgical anatomy encountered in femoral hernia repair, axillary vein ligation, femoral artery, and superficial femoral vein ligation on a fresh cadaver. For medical students.

Surgical anatomy of the inguinal area (*Motion picture*) Conrad J. Baumgartner and De Vera W. McJaffin. Made by Dept. of Visual Education, College of Medical Evangelists, 1947. Released by Davis & Geck.

29 min., st., color, 16 mm.
 Summary: Through fresh cadaver dissection, demonstrates the inguinal region, with special reference to the transversalis fascia, Cooper's ligament, and the femoral sheath. For medical students and residents in surgery.

Surgical anatomy of the male perineum (*Motion picture*) Davis & Geck, Inc., 1951.

19 min., st., color, 16 mm.
 Order no. 393.
 Summary: Surgical anatomy of male perineum, demonstrated on cadaver (Dr. R. Theodore Bergman).

Surgical anatomy of the parotid area (*Motion picture*) Davis & Geck, Inc., 1953.

19 min., st., color, 16 mm.
 Order no. 490.
 Summary: Anatomy of parotid area with particular reference to nerves, blood vessels and other structures encountered in removal of parotid gland with preservation of facial expression (Dr. Conrad J. Baumgartner).

Surgical anatomy of the posterior lumbar area: Cadaver demonstration (*Motion picture*) Russell T. Bergman, Roger W. Darnall, and Elton L. Morel. Made by Davis & Geck, 1952. Released by Davis & Geck Film Library.

22 min., st., color, 16 mm.
 Summary: An anatomical study of the posterior lumbar area on fresh cadaver material. Anatomical structures are dissected and amplified with semi-diagrammatic drawings to present their surgical significance. For urologists.

Surgical anatomy of the shoulder, part 1 (*Motion picture*) H. F. Moschely. Made and released by Davis & Geck, 1952.

43 min., st., color, 16 mm.
 Summary: Demonstrative on fresh cadavers and with diagrams the normal anatomy of the shoulder from the posterior, superior, anterior, and lateral aspects; and features those structures initially affected by injury or disease, or directly related to accurate operative approach and technique. For orthopedists and students of anatomy.

Surgical approaches to the ankle joint (*Motion picture*) U. S. Veterans Administration, 1952. Made by Churchill-Walker Film Productions.

32 min., st., color, 16 mm.
 Summary: Explains by animated diagrams the anatomy of the distal tibia and medial aspects of the ankle joint; shows operations employing approaches to the dorsal, lateral, medial, and posterior aspects of the joint, and recapitulates each operation in animation. For medical personnel.

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Surgical approaches to the elbow joint (*Motion picture*) U. S. Veterans Administration, 1950. Made by Churchill-Walker Film Productions.

29 min., st., color, 16 mm.
 Summary: Explains by animated diagrams the anatomy of the anterior and posterior aspects of the elbow joint; shows operations employing approaches to the anterolateral, lateral, medial, and posterior aspects of the joint; and recapitulates each operation in animation. For medical personnel.

Surgical approaches to the hip joint (*Motion picture*) U. S. Veterans Administration, 1951. Produced by Churchill-Walker Film Productions.

30 min., st., color, 16 mm.
 Summary: Explains by animated diagrams the anatomy of the anterior and posterior aspects of the hip joint; shows operations employing approaches to the anterolateral, lateral, medial, and posterolateral aspects of the joint; and recapitulates each operation in animation. For medical personnel.

Surgical approaches to the joints of the foot (*Motion picture*) U. S. Veterans Administration, 1952. Made by Churchill-Walker Film Productions.

32 min., st., color, 16 mm.
 Also known as Surgical approaches to the bones of the foot. Summary: Explains by animated diagrams the dorsolateral and medial aspects of the foot; shows operations employing approaches to the dorsal, dorsolateral, and plantar aspects; and recapitulates each operation in animation. For medical personnel.

Surgical approaches to the joints of the spine and sacroiliac (*Motion picture*) U. S. Veterans Administration. Made by Churchill-Walker Film Productions, 1952.

28 min., st., color, 16 mm. (Surgical approaches to the joints series).
 Summary: Anatomy of posterior aspect of sacro-iliac; anterior and posterior aspects of region of spine, emphasis on lumbar region. Approaches to sacro-iliac and intervertebral spaces.

Surgical approaches to the joints of the wrist (*Motion picture*) U. S. Veterans Administration, 1952. Made by Churchill-Walker Film Productions.

34 min., st., color, 16 mm.
 Also known as Surgical approaches to the bones of the wrist. Summary: Explains by animated diagrams the anatomy of the volar, dorsal, and ulnar aspects of the wrist; shows operations employing approaches to the volar, radio-ulnar, ulnar, and dorsal aspects; and recapitulates each operation in animation. For medical personnel.

Surgical approaches to the knee joint (*Motion picture*) U. S. Veterans Administration, 1951. Made by Churchill-Walker Film Productions.

37 min., st., color, 16 mm.
 Summary: Explains by animated diagrams the anterior and posterior aspects of the knee joint; shows operations employing approaches to the anterior and posterior aspects and to the medial and lateral condylar cartilages; and recapitulates each operation in animation. For medical personnel.

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Surgical approaches to the scapulohumeral joint (Motion picture) U. S. Veterans Administration, 1949. Made by Churchill-Wexler Film Productions.

30 min., ed., color, 10 mm.

Summary: Explains by animated diagrams the anatomy of the scapulohumeral joint; shows operations utilizing anterior, posterior, and transaxillary incisions; and recapitulates each operation in situation. For medical personnel.

Surgical approaches to the sternoclavicular and acromioclavicular joints (Motion picture) U. S. Veterans Administration, 1952. Made by Churchill-Wexler Film Productions.

17 min., ed., color, 10 mm.

Summary: Explains by animated diagrams the anatomy of the anterior aspect of the sternoclavicular and acromioclavicular joints; shows operations approaching each joint; and recapitulates each operation in situation. For medical personnel.

Surgical division of a patent ductus arteriosus (Motion picture) Mervin W. La Riva, 1948.

20 min., ed., color, 16 mm.

Summary: Presents in considerable detail, a surgical procedure for patent ductus arteriosus, employing the clamp method by the author. For residents in surgery, cardiac and thoracic surgery.

Surgical management of primary hyperthyroidism (Motion picture) Davis & Geck, Inc., 1950.

20 min., ed., color, 16 mm.

Summary: Surgical management of primary hyperthyroidism (Dr. Frank H. Lahey).

Surgical repair of complete uterine prolapse (Motion picture) Davis & Geck, Inc., 1952.

25 min., ed., color, 16 mm.

Summary: Vaginal hysterectomy (LeMay) technique preceded anterior and posterior vaginal repair in a sixty-year-old multiparous woman with third degree prostaticentia (Dr. Edward Allen).

Surgical repair of direct inguinal hernia with rectus sheath graft (Motion picture) Philip Thorok, M. D., 1953.

24 min., ed., color, 16 mm.

Summary: Technique for repair of direct inguinal hernia utilizing a pedicled anterior rectus sheath graft as described by Halstead. Anatomic drawings used to amplify operative sequence and descriptive titles; significant anatomy shown.

Surgical technique of the several types of skin graft (Motion picture) Davis & Geck, Inc., 1952.

21 min., ed., color, 16 mm.

Summary: Presents the indication for the various types of skin grafts, methods of graft cutting, their application to various surgical surfaces, and details of postoperative graft care. For plastic and general surgeons.

The surgical treatment for carcinoma of the lower end of the esophagus (Motion picture) Philip Thorok, 1947.

45 min., ed., color, 10 mm.

Summary: Demonstrates the resection of the lower end of the esophagus via a combined abdominothoracic incision for carcinoma. For surgeons.

The surgical treatment for congenital pyloric stenosis (Motion picture) Philip Thorok, 1949.

14 min., ed., color, 10 mm.

Summary: Shows a three-week-old child with typical history of congenital pyloric stenosis; describes the physical signs, demonstrates an X-ray and the technique of performing a Ramstedt pyloromyotomy; and shows postoperative views of the patient. For surgical residents.

Surgical treatment for patent ductus arteriosus (Motion picture) Sturgis-Grant Productions, Inc., 1950.

10 min., ed., color, 16 mm.

Summary: Three and half year old girl with patent ductus arteriosus examined; effects of condition demonstrated. Typical "coffins mill" murmur heard on sound track; roentgenogram shows characteristic changes in outline of at level of second intercostal space. Anatomy of region around ductus demonstrated. Ductus ligated at each end, doubly clamped and divided; second ligature under each clamp to secure stump. Patient seen several months postoperatively; no murmur, heart easily normal.

The surgical treatment for splenic flexure carcinoma with solitary liver metastasis (Motion picture) Philip Thorok, 1947.

20 min., ed., color, 16 mm.

Summary: Records a case in which preliminary colectomy is performed for obstructive stenosis of the colon at the splenic flexure, followed by wide resection of the primary lesion with end-to-end anastomosis, by resection of a solitary left lobe liver metastasis, and by closure of the colectomy. For surgeons.

Surgical treatment of arteriovenous aneurysms (Motion picture) Davis & Geck, 1950.

21 min., ed., color, 16 mm.

Summary: Stresses the relatively frequent occurrence of arteriovenous aneurysms as related to the occurrence of injuries due to high velocity of travel, as well as penetrating injuries. Points out that the use of chemotherapy as well as greater ingenuity today facilitates the treatment of these aneurysms. Discusses five methods of treating aneurysms.

The surgical treatment of carotid body sensitivity in man (Motion picture) U. S. Dept. of the Army, 1951.

20 min., ed., color, 16 mm.

Summary: Shows carotid body sensitivity in a patient and the surgical procedures necessary for correction; compares preoperative and postoperative electroencephalograms and electrocardiograms.

Surgical treatment of congenital pulmonary valvular stenosis (Motion picture) Columbia-Presbyterian Medical Center, 1951. Produced by Sturgis-Grant Productions.

19 min., ed., color, 16 mm.

Summary: Teaches the surgical treatment of congenital pulmonary valvular stenosis, with pre-operative diagnostic studies, a block operation, and improved postoperative.

Surgical treatment of hiatal hernia (Motion picture) Davis & Geck, Inc., 1954.

28 min., ed., color, 16 mm.

Order no. CS-831.

Surgical treatment of hirschsprung's disease (Motion picture) Sturgis-Grant Productions, Inc., 1949.

15 min., ed., color, 16 mm.

Summary: Syndrome explained (diagram); roentgenogram followed by surgery. Abdominal incision to open peritoneum; lower, sigmoidal portion of sigmoid mobilized. Clamp inserted into rectum from below, closed around haustra of intestine, rectum everted. Abdomen closed, everted rectum and sigmoidal portion of sigmoid excised, mucosa of remaining sigmoid sutured to that of anus. Sphincter mechanism remains intact; bowel movements return to normal postoperatively.

Surgical treatment of hypertension (Motion picture) Davis & Geck, 1946.

22 min., ed., color, 16 mm.

Summary: Demonstrates the author's surgical approach for thoracolumbar sympathectomy and sympathectomy. Shows the removal of the sympathetic trunk from the 8th thoracic down to and including the 1st or 2nd lumbar ganglia, the removal of the splanchnic nerves, and inspection of the kidneys and adrenal. Points out that the author uses the extra-pneumal approach with removal of the 12th and part of the 11th ribs. For professional groups only.

Surgical treatment of varicose veins (Motion picture) Davis & Geck, 1941.

22 min., ed., color, 16 mm.

Summary: Presents physical diagnosis methods used in the selection of patients for operation and the decision as to type of operation for varicose veins. Describes surgery, including the Mayo vein stripping.

Sympathetic nerve block (Motion picture) U. S. Dept. of the Army, 1948.

15 min., ed., color, 16 mm.

Order no. PMP 2000. **Summary:** Shows the technique used to accomplish sympathetic nerve block in three types of cases. Demonstrates a lumbar sympathetic nerve block for diagnostic purposes on a patient complaining of cramp-like in his left leg.

Synovectomy of the knee for rheumatoid arthritis (Motion picture) U. S. Dept. of the Army, 1951.

10 min., ed., color, 16 mm.

Order no. PMP 1025. **Summary:** Shows the preoperative, operative, and postoperative phases of a case of rheumatoid arthritis with involvement of the right knee. For medical personnel.

Technic for cholecystectomy (Motion picture) Catholic Charities of the Archdiocese of New York. Made and released by Sturgis-Grant Productions; made 1953.

24 min., ed., color, 16 mm.

Summary: Depicts a standard operative technic in a typical case, in which a single combination-type cholesterol stone is removed. Shows the anatomical relationships of ducts and arteries supplying the gallbladder and adjacent viscera. For surgeons.

MEDICINE—Surgery and Radiology

Technic for cholecystectomy—with common duct exploration (Motion picture) Sturgis-Grant Productions, Inc., 1953.

33 min., ed., color, 16 mm.

Technique of open amputation (Motion picture) U. S. War Dept., 1946.

11 min., ed., color, 16 mm.

Order no. PMP 2002. **Summary:** Demonstrates the procedure on a below-knee amputation case, and the revision and final plastic repair six weeks later. For medical personnel.

Technique of tantalum cranioplasty (Motion picture) U. S. Dept. of the Army, 1948.

40 min., ed., color, 16 mm.

Order no. PMP 2007. **Summary:** Points out typical problems in the cosmetic correction of skull defects by means of tantalum cranioplasty. Demonstrates the technique in the formation and insertion of tantalum plates. For medical personnel.

Terminal atherosclerosis. Its indications and technique (Motion picture) John M. Fernald. Made and released by Lilly Burke Productions, 1942.

15 min., ed., color, 16 mm.

Summary: Describes the examination of the patient, including a positive Trendelenburg test showing terminal atherosclerosis vein valve incompetency, and discusses the Ochsner and Forthoe tests to determine operability. Shows bilateral ligation under local anesthesia, and postoperative results. For medical profession.

Thoracic surgery (Motion picture) U. S. Department of Defense, Armed Forces Institute of Pathology, 1946.

41 min., ed., color, 16 mm.

Part I: Hemothorax with Consideration of Spontaneous Recurrent Breathing Exercises. Pathologic, diagnostic and therapeutic aspects of hemothorax and other disorders of pleura and pleural cavity.

Part II: Foreign Bodies in the Lung and Mediastinum. 20 min., ed., color, 16 mm.

Summary: Part III: Foreign Bodies in the Lung and Mediastinum. Problems associated with diagnosis, surgical planning, surgery and postoperative care of patients.

Part III: Foreign Bodies in the Lung and Mediastinum. 45 min., ed., color, 16 mm.

Order no. PMP 2016-7-3. **Summary:** Thoracolumbar sympathectomy for hypertension, demonstrated; indications for operation; symptoms; anesthesia of utmost importance (Dr. James L. Poppen).

Thoracolumbar sympathectomy for hypertension (Motion picture) Davis & Geck, Inc., 1947.

33 min., ed., color, 16 mm.

Order no. 342. **Summary:** Thoracolumbar sympathectomy for hypertension, demonstrated; indications for operation; symptoms; anesthesia of utmost importance (Dr. James L. Poppen).

MEDICINE—Surgery and Radiology

Transthoracic total gastrectomy (*Motion picture*) Davis & Geck 1946

38 min., sl., color, 16 mm.

Summary: A film record of a transthoracic total gastrectomy with intrathoracic esophago-jejunal anastomosis for carcinoma of the stomach. For surgeons, residents and interns in surgery.

Trans thoracic vagectomy (Motion picture) Davis & Geck
1950.
41 min., sl., color, 16 mm.
Summary: Shows a diverticulectomy, subtotal gastrectomy for intractable duodenal ulcer, and gastric ulcer and diverticulum of the stomach. For professional groups only.

Ulnar nerve and soft tissue defect and simultaneous repair in the forearm (*Motion picture*) U. S. Dept. of the Army, 1950.
10 min., sd., color, 10 mm.
Order no. PMF 5133.
Summary: Uses a clinical case to demonstrate a method of accomplishing the simultaneous repair of a soft tissue defect and ulnar nerve defect in the forearm. For medical personnel.

Ulnar nerve suture at the wrist (*Motion picture*) U. S. Army, Dept. of the Army, 1948.

Unilateral total pneumonectomy for bronchogenic carcinoma (Motion picture) Alton Ochsner, 1944.
30 min., sl., color, 16 mm.

Summary: A film record of a pneumonectomy for bronchogenic carcinoma, as performed by the author. For surgeons, residents in surgery, interns.

Upper selective thoracoplasty for pulmonary tuberculosis
(Motion picture) Davis & Geck, 1946.
31 min., sl., color, 16 mm.
Summary: Shows the operation performed in three stages with intervals. Portrays the standard, upper-selective thoracoplasty to control unilateral, chronic fibroid pulmonary tuberculosis, and illustrates the exposure of the thoracic cage, extent of rib removal, and the use of stand retractor. For professional review only.

Urease crystallization (*Motion picture*) U. S. Dept. of the Army, 1948.
6 min., sd., color, 16 mm.
Order no. PMF 5115.
Summary: The principal steps used to isolate the urealytic enzyme as prophenyl in Dr. J. R. Sumner

MEDICINE—Surgery and Radiology

Uretero-ischial anastomosis (Motion picture) Davis & Gock, Inc., 1960.
15 min., ed., color, 16 mm.
Order no. CH 387.
Summary: Uretero-ischial anastomosis in treatment of hydrocephalus (Dr. Donald D. Mason).

Uretero-ischial anastomosis (Motion picture) Davis & Gock, Inc., 1961.
15 min., ed., color, 16 mm.
Order no. CH 384.
Summary: Submuscular tunnel, open method (Drs. Frank Himm and Frank Himm, Jr.).

Ureterogomoid transplant and ureterogomoid anastomosis: A comparison of techniques (Motion picture) Carl Roewe. Made and released by Billy Burke Productions, 1951.
23 min., ed., color, 16 mm.

Summary: Shows modified Coffey no. 1 technique and ureterogomoid anastomosis, mucosa-to-mucosa technique, showing various advantages of each technique and demonstrating operative procedure in detail. For medical profession.

Use of the artificial kidney (Motion picture) Davis & Gock, Inc., 1950.
15 min., ed., color, 16 mm.
Summary: Illustrates the use of a mechanical extracorporeal apparatus to remove waste products from the blood in patients with damaged kidneys. For professional groups only.

Vaginal hysterectomy (Motion picture) Davis & Gock, Inc., 1950.
37 min., ed., color, 16 mm.
Summary: Procedures and techniques in choice up of operation for various pelvic, nature method (Dr. Louis E. Phaneuf).

Vagotomy for chronic, non-specific, ulcerative colitis (Motion picture) Philip Throck, 1949.
16 min., ed., color, 16 mm.

Summary: A record of the performance of a vagotomy in a case of chronic, non-specific, ulcerative colitis with a demonstration of its results. For residents in surgery and general surgery.

Vagotomy for duodenal ulcer (Motion picture) U. S. Dept. of the Army, 1947.
11 min., ed., color, 16 mm.
Order no. PMP 5004.
Summary: Demonstrates the preoperative, surgical and postoperative phases in the performance of a vagotomy. Explains the surgical program undertaken in cases of duodenal ulcers which are difficult to control under medical regime.

Vascular injuries (Motion picture) U. S. Dept. of the Army, 1952.
44 min., ed., color, 16 mm.

Order no. PMP 5150.
Summary: Shows the diagnosis and effect of two traumatic injuries; demonstrates preoperative measures, and techniques of arterial repair.

Vitallium cup arthroplasty (Motion picture) Davis & Gock, Inc., 1946.
34 min., ed., color, 16 mm.

Order no. 581.
Summary: With secondary bony ankylosis. Technique requiring special skill and equipment for operation; hip gangue and measure used to insure properly fitted cup. (Dr. H. H. Smith-Petersen)

MEDICINE—Tropical Medicine

African trypanosomiasis (Motion picture) U. S. Dept. of the Navy, 1951. Released for public educational use through U. S. Office of Education, 1953.
10 min., ed., color, 16 mm.

Order no. MN 6550.
Summary: Explains the etiology, epidemiology, symptomatology, diagnosis, treatment, prognosis, prevention, and control of African trypanosomiasis (sleeping sickness). Primarily for medical personnel.

Arthropod-borne virus encephalitis (Motion picture) U. S. Dept. of the Army, 1947.
33 min., ed., color, 16 mm.

Order no. PMP 5048.
Summary: Tropical disease problems which are approached by different diagnostic measures. Portrays the diagnosis, treatment, and control of Japanese B encephalitis, and illustrates the approach to the investigation of such problems.

— Another issue. 35 mm.

Control of filariasis in Tahiti (Motion picture) University of Southern California, 1950.
15 min., ed., color, 16 mm.

French version also available.
Summary: Examines filariasis—the symptoms, treatment, method of transmission, and prevention techniques. Filmed in Tahiti. For medical and lay audiences.

Criminal at large (Motion picture) U. S. Public Health Service, 1948.
13 min., ed., color, 16 mm. (Malaria control series).

Order no. 4-602.
With film guide.
Summary: The same title with identical pictures and narration, also available.
Summary: A job applicant assigned to write a story on "the most dangerous criminal." Discovers the editor by reporting with the aid of a microscope. He is the first and prime trait of mosquito quarantine. Contains still pictures and drawings.

— Another issue. 16 mm.

Epidemiology of murine typhus (Motion picture) U. S. Public Health Service, 1953.
18 min., ed., color, 16 mm.

Order no. 4-6021.
Revision of the 1948 film with same title.
Summary: Illustrates procedures for the epidemiological study of murine typhus and their relationship to its prevention and control; pictures of the disease—its rat flea, flea, and the role of public health officers and the U. S. Public Health Service in controlling the disease.

Experimental malaria transmission (Motion picture) U. S. Public Health Service, 1946.
18 min., ed., color, 16 mm. (Malaria control series)

Order no. 4-602.
With film guide.
Summary: Depicts the rearing, infecting, and handling of mosquitoes for experiments in malaria transmission; shows how to determine the rate of infection of mosquitoes, direct infected mosquitoes for oocysts and sporozoites, transmit malaria to human beings with infected mosquitoes, and record data about mosquitoes and patients.

— Another issue. 16 mm.

How the mosquito spreads disease (Motion picture) Bmy Studios, 1921.
10 min., ed., color, 16 mm. (The science of life, no. 8)

Summary: Traces the life history of the mosquito; describes the malaria parasite and its cycle in the mosquito and in human blood; and discusses the prevention of malaria and yellow fever.

Malaria (Motion picture) U. S. Public Health Service, 1944.
10 min., ed., color, 16 mm. (Malaria control series)

Order no. 4-601.
With film guide.
Summary: Describes *Anopheles quadrimaculatus* and its habits; transmission, diagnosis, and treatment of malaria; economic and related results of malaria; and individual and community preventive measures. Consists of still pictures.

— Another issue. 35 mm.

Microfilariae of Wuchereria bancrofti (Motion picture) U. S. Public Health Service, 1917.
4 min., ed., color, 16 mm. (Parasitology series)

Order no. 4-608.
Summary: Cinematography of activity of diurnally periodic microfilariae of *Wuchereria bancrofti* from the blood of a soldier infected in the Society Islands.

Nutritional aspects of tropical disease (Motion picture) E. R. Squibb & Sons, 1950. Made by Fordell Films.
34 min., ed., color, 16 mm.

With booklet.
Summary: Presents seven patients with nutritional deficiencies from various causes, including parasitic infestation; discusses studies on the relationship of tropical disease to nutrition; and explains the principles of management in cases of nutritive failure. For general practitioners.

MEDICINE—Veterinary Medicine

Pinta (Motion picture) U. S. Dept. of the Army, 1948.
18 min., ed., color, 16 mm.

Order no. PMP 5071.
Summary: Gives the diagnosis and aetiological etiology of pinta, a chronic disfiguring skin disease, as manifested in its various stages. Points of treatment and penicillin therapy yielding good results in the treatment of this disease. For medical personnel.

Winged scourge (Motion picture) U. S. Coordinator of Inter-American Affairs, 1941. Made by Walt Disney Productions. Re-released by U. S. Institute of Inter-American Affairs, 1946. **USIA**
10 min., ed., color, 16 mm.

Summary: Shows various methods of combating and eliminating the anopheles mosquito. Animated cartoon featuring the Seven Sisters.

Yaws (Motion picture) U. S. Dept. of the Army, 1947.
14 min., ed., color, 16 mm.

Order no. PMP 5060.
Summary: Discusses yaws—the causative organism; geographical distribution; non-neural status; age groups involved; predisposing factors; modes of transmission; and the stages and course of the entity, pathology, treatment, and prognosis of disease.

MEDICINE—Veterinary Medicine

Animal breeding (Motion picture) Encyclopedia Britannica Films, 1954.
13 min., ed., color, 16 mm.

With film guide.
Summary: Shows the operation of an up-to-date cattle breeding farm; outlines the major producer and consumer benefits derived from modern stock breeding procedures; illustrates selective breeding, inbreeding and outbreeding techniques; and explains the value of an artificial breeding program. Describes the pioneering work of Robert Bakewell and Gregor Mendel in the field of scientific breeding.

Ascariasis (Infestation with ascarids) (Motion picture) U. S. Dept. of the Army, 1949.
13 min., ed., color, 16 mm.

Order no. PMP 5074.
Summary: Shows details of the life cycle of ascarids in swine. For professional personnel.

— Another issue. 35 mm.

Bilharziasis in water fowl (Motion picture) U. S. Dept. of the Army, 1949.
18 min., ed., color, 16 mm.

Order no. PMP 5120.
Summary: Describes the essential elements of the life cycle of bilharziasis, with detailed studies of the movements of worms and cercariae. For professional personnel.

— Another issue. 35 mm.

Blue tongue (Motion picture) U. S. Dept. of Agriculture in cooperation with U. S. Federal Civil Defense Administration and California Dept. of Agriculture, 1954.
6 min., ed., color, 16 mm.

Summary: Describes the history and geographical distribution of this tongue, encephalitis fever of sheep; symptoms, lesions, and pathology characteristic of the disease; and means of prevention and control.

MEDICINE—Veterinary Medicine

Disease—The uhung rustler (*Motion picture*) Cutter Laboratories, 1950.

30 min., ed., color, 16 mm.
Summary: Eight common range diseases of cattle: anthrax, brucellosis, campylobacteriosis, screw-worms, red water, pink eye, shipping fever, blackleg-malignant edema. Their causes, complications, treatment and prevention.

Experimental study of St. Louis encephalitis virus in horses (*Motion picture*) United States Department of Health, Education and Welfare, U. S. Public Health Service, 1942.

20 min., st., color, 16 mm.
Summary: Results of intracerebral inoculation of three horses with St. Louis strain of equine encephalitis virus, showing symptoms of equine encephalitis (coma, sleeping sickness): rise in temperature (temperature chart), incoordination, tilting gait, weakness, twitching of the lips, and yawning. Collection of material at autopsy. Intracerebral inoculation of mice with samples of collected materials and disposal of carcasses by burning.

Horses and bots (*Motion picture*) U. S. Dept. of Agriculture, 1933.

30 min., st., b&w, 16 mm.
Summary: Shows three types of botting and how they attack and affect horses and mules; explains methods of treating the affected animals; and describes campaign of eradication.
—Another issue. 35 min.

Laboratory diagnosis of rabies (*Motion picture*) U. S. Public Health Service, 1950.

6 min., ed., b&w, 16 mm.
Order no. 4-111.
Summary: Filmstrip with same title, covering same subject matter, also available.
Summary: Explains the procedure of removing the dog's brain, exposing Ammon's horn, staining and examining under a microscope a smear and an impression from Ammon's horn, and making the mouse inoculation test.
—Another issue. 35 min.

Liver fluke disease in sheep (*Motion picture*) U. S. Dept. of the Army, 1949.

10 min., ed., b&w, 16 mm.
Order no. PAF 625.
Summary: Reviews the life cycle of the liver fluke, and explains the control and treatment of this disease. For professional personnel.
—Another issue. 35 min.

Man's greatest friend (*Motion picture*) Metro-Goldwyn-Mayer, 1938. Released for educational purposes by Teaching Film Distribution, 1950.

10 min., ed., b&w, 16 mm. (Pete Smith specialties series)
Summary: Pictures the service of dogs to mankind, with emphasis on Pasteur's work in developing a vaccine against hydrophobia.

Modern control of poultry diseases (*Motion picture*) Lederle Laboratories Division, American Cyanamid Co., 1947.

Made by Paul Hance Productions.
35 min., ed., color, 16 mm.
Commercial colorchrome.
With literature describing poultry diseases.
Summary: Discusses the effectiveness of sulfonamides, P. N. powder, and virus vaccines in the prevention and treatment of poultry diseases. Explains symptoms, and shows methods of treatment for coccidiosis, pullorum disease, acute fowl cholera, cornea (red eye), respiratory disease, foot pad, and worm infestation. Describes the usefulness of sulfonamides, sulfox, and virus-vaccination, and demonstrates methods of mixing these sulfox in mash and drinking water.

Newcastle disease (*Motion picture*) American Cyanamid Company, Lederle Laboratories Division, 1948.

15 min., st., color, 16 mm.
Summary: Symptoms of Newcastle disease in poultry of various ages, pointed out for early recognition. Technique of vaccination.

Outbreak (*Motion picture*) U. S. Dept. of Agriculture, 1949.

30 min., ed., color, 16 mm.
Summary: Traces the history of foot-and-mouth disease; explains what happened in the 1929 outbreak in California; and shows the cooperative measures used by the Mexican and United States Governments in combating the outbreak of 1949.
—Another issue. b&w.

Rabies (*Motion picture*) Encyclopaedia Britannica Films, Inc., 1953.

6-1/2 min., st., b&w, 16 mm.
Summary: History of rabies. Description of disease in dogs as far back as 4th century B. C. by Aristotle; (2) Celso (1st century A. D.) recorded first human case; (3) Zinke (1804) first demonstrated infectious nature of rabid dogs; (4) Pasteur (1885) advocated prophylactic treatment (Pasteur treatment); (5) Neppi (1903) found incubation bodies in central nervous system, especially in Ammon's Horn. Etiology, pathology, (7) treatment: (1) prophylactic (Pasteur treatment) and (2) palliative. Prognosis good when prophylactic treatment is given immediately; once disease has developed no treatment avail.

Rabies can be controlled (*Motion picture*) Lederle Laboratories Division, American Cyanamid Co., 1952. Produced by Forthell Films.

15 min., ed., color, 16 mm.
Summary: Shows the different stages of rabies and illustrates to dog owners the importance of inoculation in protecting their dogs. Includes a historical sketch of the research and experiments which have led to the development of the commercially-manufactured vaccine.

Rinderpest (*Motion picture*) U. S. Dept. of Agriculture in collaboration with the Federal Civil Defense Administration and the Dept. of Defense, 1955.

10 min., ed., color, 16 mm.
Summary: A technical picture, destined for veterinarian training, describing the history and geographical distribution of rinderpest in cattle, sheep, and goats. Shows the lesions and pathological changes of organs and tissues affected, and outlines measures used to prevent its introduction into this country.

The Story of phenothiazine (*Motion picture*) E. I. du Pont de Nemours & Company, Inc., 1948.

19 min., ed., color, 16 mm.
Summary: How use of phenothiazine removes intestinal worms from livestock. Laboratory research tests on ranches and farms. How drug is administered to sheep, horses, cattle, hogs, horses and other animals.

Striking back against rabies (*Motion picture*) U. S. Public Health Service, 1950.

15 min., ed., b&w, 16 mm.
Order no. 4-687.
With literature guide.
Summary: Shows how a typical county rabies epidemic is checked by joint emergency control measures of the county health department, a state public health veterinarian, and a federal rabies control expert.
—Another issue. 35 min.

The threat of the cattle fever tick (*Motion picture*) U. S. Dept. of Agriculture, 1954.

35 min., ed., color, 16 mm.
Summary: Presents the danger of the cattle fever tick to American cattle, a brief history of the 30-year campaign waged to eradicate this fever in cattle in the South, and the significance of precautions taken to see that the tick does not gain another foothold in the U. S.

Vesicular exanthema (*Motion picture*) U. S. Dept. of Agriculture in cooperation with U. S. Federal Civil Defense Administration, 1954.

10 min., ed., color, 16 mm.
Summary: The story of the outbreak of vesicular exanthema in 1952, its rapid spread, and measures taken to control it. Shows disease symptoms; depicts differential diagnostic field tests; and reviews federal, state, and industry cooperation in eradication efforts.

PHYSICS

The ABC of internal combustion (*Motion picture*) General Motors Corp., 1948.

15 min., ed., color, 16 mm.
Technicolor.
Summary: Shows how air, fuel, and ignition work together to create power in the internal combustion engine. Demonstrates how a piston connecting rod, and crankshaft, can harness power; illustrates the four-stroke cycle, the valve operation, carburetion, and ignition timing.

The ABC of the automobile engine (*Motion picture*) General Motors Corp., 1948. Made by Sound Masters.

16 min., ed., color, 16 mm.
Summary: Combines cartoon and technical animation to illustrate the component parts of an automobile engine and how they operate. Three basic ingredients (air, fuel, and ignition) that make an engine perform are personified as animated cartoon characters who are shown performing their individual jobs in making the engine run. Explains the function of the carburetor, piston, piston rings and pins, connecting rods, crankshaft, valve mechanism, ignition, cooling and lubricating systems, etc.

ABC of the Diesel engine (*Motion picture*) General Motors Corp., 1950. Made by Sound Masters.

20 min., ed., color, 16 mm.
Summary: Explains how the Diesel engine works. Through animation shows how air and fuel get into the cylinder and how the mixture is ignited; how the engine can operate without a spark plug; how the two-cycle principle is used; how it helps the engine produce power. Includes examples of the application of Diesel engines in industry, transportation, etc.

PHYSICS

Aerodynamics: Air flow (*Motion picture*) U. S. Army Air Forces, 1941. Released for public educational use through U. S. Office of Education, 1943.

18 min., ed., b&w, 16 mm.
Order no. TP 1-100.
Summary: Explains turbulence and skin friction through the visualization of smoke flowing over solid of different shapes and forms. Also defines, through the use of smoke stream, mode of attack, point of stall, drag, and lift.

Aerodynamics: Forces acting on an air foil (*Motion picture*) U. S. Army Air Forces, 1941. Released for public educational use through U. S. Office of Education, 1943.

27 min., ed., b&w, 16 mm.
Order no. TP 1-101.
Summary: Theory and principles of the forces acting on airfoils: lift, drag, angle of attack, and wing chord; development and use of wind tunnels to measure forces on a wing form; relationship between lift, drag, wing area, wing velocity, thrust, and weight.

Air all about us (*Motion picture*) Coronet Instructional Films, 1955.

11 min., ed., color, 16 mm. (Exploring science)
With study guide.
Summary: A floating feather and an experiment with a balloon arouse a young boy's curiosity about the physics of air and the usefulness of air pressure in suction cups, in bicycles and automobile tires, and in a car lift. Shows how air pressure enables an airplane to fly.
—Another issue. b&w.

Air around us (*Motion picture*) Encyclopedia Films, 1954.

11 min., ed., color, 16 mm.
With film guide.
Summary: Dramatized incidents and animated sequences are used to explain the reality of air, its physical and chemical properties, and the use made of air in industrial automobile tires, supporting structures, providing pressure in balloons, moving windmills, and in many other ways.
—Another issue. b&w.

Air all around us (*Motion picture*) Leonard Peck Productions, Released by Young America Films, 1948.

10 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Explains the properties of air by demonstrating that air is a substance which exerts pressure, expands and contracts, and can be compressed. For elementary grades.

Air in action (*Motion picture*) Coronet, 1947.

11 min., ed., color, 16 mm.
With teacher's guide.
Summary: Explains the principles and applications of air in action. Illustrates these principles with ping-pong ball experiments, wind tunnel testing, airplanes in flight, and animated drawings of other experiments. For intermediate grades, high school, and college.
—Another issue. b&w.

The airborne magnetometer (*Motion picture*) U. S. Geological Survey in cooperation with U. S. Civil Aeronautics Administration, 1952.

24 min., ed., b&w, 16 mm.
Order no. C-24.
A long version with the same title also released in 1952.
Summary: Explains briefly and in non-technical language how the earth's magnetic field is utilized in prospecting. Describes the airborne equipment developed to detect changes in the earth's magnetic field and shows how this equipment is used.

PHYSICS

Airplanes and how they fly (Motion picture) Centron Corp. Released by Young America Films, 1950.

11 min., ed., b&w, 10 mm.

With teacher's guide. Summary: Presents types of aircraft. Illustrates and explains the basic principles of aircraft flight—how the plane stays in the air and how it is controlled. For elementary grades.

Archimedes' principle (Motion picture) Encyclopaedia Britannica Films, 1953.

6 min., ed., b&w, 10 mm.

With film guide. Summary: Describes the events which led to Archimedes' discovery of the law that governs the flotation of bodies in water and other liquids. Shows experiments in a modern physics laboratory which prove Archimedes' principle. Includes an experiment which is developed through the use of the Archimedes balance.

Atmosphere and its circulation (Motion picture) Encyclopaedia Britannica Films, 1945.

11 min., ed., color, 10 mm.

Summary: Describes principles according to the distribution of air over the earth. Reveals the composition of atmosphere and explains its pressure and temperature at varying altitudes. Illustrates how the sun's rays heat the earth's surface unevenly and how this phenomenon and the earth's rotation cause air movement. Describes the role of atmosphere circulation in creating air pressure which, in turn, produces weather and climate.

Atmospheric pressure: with the Magdeburg experiment (Motion picture) Encyclopaedia Britannica Films, 1955.

11 min., ed., b&w, 10 mm.

With film guide. Summary: Describes contributions of early scientists to the study of vacuum and atmospheric pressure which led to the invention of the air pump and the barometer. A recreation of Otto von Guericke's Magdeburg hemispheres experiment of 1654 is used to explain that the atmosphere exerts external pressure. Describes the action of an air pump and discusses the properties of a vacuum. Includes scenes of a modern laboratory experiment demonstrating that air has weight. Shows practical applications of knowledge about air pressure and vacuum.

Basic hydraulics (Motion picture) U. S. Dept. of the Navy with the cooperation of Adel Products Corp., 1945. Released for public educational use through U. S. Office of Education, 1948.

9 min., ed., color, 10 mm.

Chief ex. MN 2677-A. Summary: Demonstrates and explains the physical laws, mechanical advantages, and applications of basic hydraulics. Illustrates three basic units of a hydraulic system—pump, pipe, and cylinder.

Basic principles of the analytical balance (Motion picture) U. S. Public Health Service, 1951.

10 min., ed., b&w, 10 mm.

Order no. 12. With film guide. Summary: Explains the use of the analytical balance and shows how to find the zero point of the balance, find its sensitivity, calibrate the weights, weigh an object, and weigh out a predetermined amount of material.

Carbon-black treasure (Motion picture) National Carbon Co., 1945. Made by Roland Reed Productions.

37 min., ed., color, 10 mm.

Kodachrome. Summary: Explains how engineering, research, and development have made carbon an irreplaceable industrial tool for electrochemical and electrocatalytic applications. Outlines the many operations from the selection of raw materials through calcination, activation, baking, and finishing, required to build electrical conductivity and mechanical strength into carbon and graphite.

Carbon fourteen (Motion picture) Encyclopaedia Britannica Films, 1953.

12 min., ed., b&w, 10 mm.

Produced in collaboration with the Division of the Physical Sciences of the University of Chicago, which includes the Institute of Nuclear Studies.

With teacher's guide. Summary: Explains the use of radiocarbon as a means of determining the age of historic and prehistoric objects; shows how carbon fourteen is being used in finding the provenance of photographs; and describes experiments at the Argonne National Laboratory near Chicago which are being conducted for the purpose of studying the effect of radiations upon plants.

The Carnot cycle and the Kelvin temperature scale (Motion picture) McGraw-Hill Book Co., 1952. Made by Audio Productions.

8 min., ed., b&w, 10 mm. (College physics series)

Produced with the cooperation of the Visual Aids Committee of the American Association of Physics Teachers.

Summary: The motion of a piston in a cylinder and a moving piston on a pressure-volume diagram are used in explaining the four ideal processes which constitute the Carnot cycle. Shows how heat is absorbed and rejected during the cycle and defines the Kelvin temperature scale. Discusses the efficiency of a Carnot engine.

The cathode ray tube: How it works (Motion picture) U. S. Dept. of the Navy, 1945. Produced by Sam Handy Organization. Released for public educational use through U. S. Office of Education, 1947.

10 min., ed., b&w, 10 mm.

Order no. MN 2104-A. Summary: Demonstrates the construction and function of various parts of the cathode ray tube. Explains electrostatic and electromagnetic deflection and how varied currents affect the position of the spot of light on the scope.

—Another issue. 35 mm.

Characteristics of gases (Motion picture) Edited Pictures System, 1938.

10 min., ed., b&w, 10 mm.

Summary: Some characteristics of gases as exemplified in atmosphere; how man lives unconsciously under constant operation of physical laws; substance of atmosphere.

Characteristics of liquids (Motion picture) Edited Pictures System, 1938.

10 min., ed., b&w, 10 mm.

Summary: Properties of liquids; forms they assume; reasons for manifestations of surface film, tension and viscosity as revealed in drops, jets and bubbles; structure and properties of matter.

Characteristics of solids (Motion picture) Edited Pictures System, 1938.

10 min., ed., b&w, 10 mm.

Summary: Characterization of matter. Some fundamental conceptions of its nature and physical laws involved. Application of various laws.

The compound microscope (Motion picture) Bausch & Lomb Optical Co., 1953. Made by Sturges-Grant Productions.

20 min., ed., color, 10 mm.

With Student's manual. Summary: Reviews various types of microscopes in use today, and demonstrates the operation and care of a microscope. Explains the function of each part of the microscope and, through animated drawings, shows its basic optical principles.

Curves of color (Motion picture) General Electric Co., 1941.

10 min., ed., color, 10 mm.

Summary: Tells the story of color—from Newton's experiments to the spectrophotometer. In scenes of plant and animal life, reveals the sun as the source of all color, and shows why it is impossible to describe any color with words alone.

Deflection output circuits (Motion picture) McGraw-Hill Book Co., 1953. Made by Locks and Norling Studios.

8 min., ed., b&w, 10 mm. (Television principles and servicing)

Correlated with the book Basic television, by Bernard Grob. Summary: Animated drawings are used to illustrate and explain the arrangement and function of vertical and horizontal output circuits for magnetic deflection.

Development of communication (Motion picture) Erpi Classroom Films (later name Encyclopaedia Britannica Films) 1942.

11 min., ed., b&w, 10 mm.

With teacher's guide. Summary: Traces the development of modern methods of communication, including the telegraph, telephone, wireless, and radio. Describes the development of the telegraph by combining earlier inventions of Vail, Watson, and Herry. Reveals the work on the telephone, Marconi discovering the possibilities of the wireless, and De Forest's contribution to radio. Shows how modern communications connect remote parts of the world. For junior and senior high school, and adult groups.

The Diesel engine and the ideal diesel cycle (Motion picture) McGraw-Hill Book Company, Inc., 1952.

8 1/2 min., ed., b&w, 16 mm. (College Physics—Heat and Light Series)

Summary: Intake stroke, compression stroke, combustion, power stroke, valve exhaust, exhaust stroke in Diesel engine cycle explained. Ideal Diesel cycle plotted. Factors affecting efficiency discussed.

The diode: principles and applications (Motion picture) U. S. Office of Education, 1945. Produced by Locks and Norling Studios.

17 min., ed., b&w, 10 mm. (Engineering series, Electronics, no. 2)

Order no. GE 170. With instructor's manual. Supplementary filmstrip of same title.

Summary: Principles of electron flow across a gap; basic features of the diode tube, control of electron flow in the tube; photoelectric cells, X-ray tubes, and the diode as a rectifier.

—Another issue. 35 mm.

Distributing heat energy (Motion picture) Erpi Classroom Films (later name Encyclopaedia Britannica Films) 1938.

11 min., ed., b&w, 10 mm.

With teacher's guide. Summary: Describes fuel, heating systems, and principles underlying heat distribution. Reveals that most useful energy comes from the heat energy of coal, petroleum, natural gas, and wood, and from the mechanical energy of falling water. Illustrates principles of heat, oil, and gas furnaces; and demonstrates how heating by hot air, hot water, and steam. Explains the physics of heat energy transmission by convection, conduction, and radiation.

The Doppler effect (Motion picture) McGraw-Hill Book Co., 1952. Made by Audio Productions.

8 min., ed., b&w, 10 mm. (College physics series)

Produced with the cooperation of the Visual Aids Committee of the American Association of Physics Teachers. Summary: Explains the factors which determine the pitch of a sound. Describes the changes in wave-lengths with the source of sound and the listener stationary, with the source of sound in motion and the listener stationary, and with the source of sound stationary and the listener in motion.

Electrostatics (Motion picture) Encyclopaedia Britannica Films, 1950.

11 min., ed., b&w, 10 mm.

A revision of the 1933 motion picture of the same title. With teacher's guide. Summary: Shows the nature of repulsive and attractive forces between bodies charged by contact under different conditions. Demonstrates techniques of charging by induction, and the part played by conductors and insulators, and compares the use of two measuring devices, the electroscope and the electrometer. Explains the development of atmospheric electricity leading to the discharges of lightning in a thunderstorm and explains the protective value of lightning rods. For high school and college.

Energy (Motion picture) John F. Criswell. Released by Gateway Productions, 1950.

10 min., ed., b&w, 16 mm. (The primary science series)

Summary: A meeting of the model airplane club introduces various types of energy—hot's, motion, a rubber band, a gasoline engine. Explains air, steam, electricity, and water as examples of other sources of energy.

Energy and its transformation (Motion picture) Erpi Picture Consultants (later name Encyclopaedia Britannica Films) in cooperation with the University of Chicago, 1933.

11 min., ed., b&w, 10 mm.

With film guide. Summary: Defines potential, kinetic, and radiant energy as manifested in mechanical, electrical, chemical, and atomic forms. The transformation of energy is illustrated by a pile driver, a water turbine, and a dynamo. Explains the relationship of energy, power, and work. A demonstration of Joule's experiment illustrates the conservation of energy. For high school and college groups.

Energy from the sun (Motion picture) Encyclopaedia Britannica Films, 1955.

11 min., ed., b&w, 10 mm.

With film guide. Summary: Describes and illustrates sequences are used to explain the water cycle and to show how solar energy is transformed, transmitted through space, utilized by man and by plants, and stored for future use. Shows the work of scientists in converting the sun's energy into industrial power. Includes an explanatory chart to the sun by means of telescopic stop-motion photography.

PHYSICS

Exploration with the high temperature microscope (*Motion picture*) The Carborundum Company, 1950.

22 min., ed., color, 16 mm.

Summary: Development and operation of high temperature microscope used in observing chemical and physical phenomena at temperatures up to 4700° F.

Fire (*Motion picture*) Encyclopedia Britannica Films, 1947.

11 min., ed., color, 16 mm.

Summary: Describes domestic uses of fire. Explains principles of combustion, nature of fire hazards, and principles of extinguishing fire. Reveals how combustion is affected by the regulation of the draft in a furnace and of gas and air in a stove. Includes animated drawings.

Fire (*Motion picture*) John F. Criswell. Released by Gateway Productions, 1950.

10 min., ed., b&w, 16 mm. (The primary science series)

Summary: As a family barbecue, the children are shown what is needed to make a fire. Shows what fire does for man, how it is controlled, what to do when a fire gets out of control, and how to prevent a fire.

Force and motion (*Motion picture*) Coronet Instructional Films, 1949.

11 min., ed., color, 16 mm.

Summary: When a young boy tries to lift a heavy stone with a shovel, the weight of the stone causes the handle to break. This experience leads the boy to an investigation of force, mass, acceleration, and their interrelationships. Portrays the effects of the basic laws of mechanics and Newton's three laws of motion. Explains such terms as inertia, momentum, and reaction.

— Another issue. b&w.

The force of gravity (*Motion picture*) Young America Films, 1949.

10 min., ed., b&w, 16 mm.

Summary: Introduces the theory of gravity and explains some of its everyday manifestations. For elementary grades.

Friction (*Motion picture*) John F. Criswell. Released by Gateway Productions, 1951.

10 min., ed., b&w, 16 mm. (The primary science series)

Summary: Children, called Rangers, find that friction works against them when they try to drag building materials for their club house over the ground. They discover various ways to minimize friction—the wheel, ball bearings, etc.—and ways to make friction work for them.

Fuels and heat (*Motion picture*) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1958.

11 min., ed., b&w, 16 mm.

Summary: Explains heat energy in terms of its source, storage in the form of fuel, and practical utilization. Describes the manufacture and storage of carbohydrates by plants, the role of carbon in burning of fuels, the formation of coal and petroleum, the process of combustion, molecular action in relation to heat and temperature, and the operation of steam and gasoline engines. For junior and senior high school, and adult groups.

Fundamentals of acoustics (*Motion picture*) Encyclopedia Britannica Films, 1950.

11 min., ed., b&w, 16 mm.

Summary: Compares sound waves with water waves, provides examples of echoes and explains how they affect acoustic factors, demonstrates effects of different wall surfaces upon the reflection of sounds, portrays the mechanics of our hearing process, transmits the range of the human voice, reveals the effects of eliminating certain vibrational frequencies, and identifies ultrasonic. For high school, college, and adult groups.

Galileo's laws of falling bodies (*Motion picture*) Encyclopedia Britannica Films, 1953.

6 min., ed., b&w, 16 mm.

Summary: Dramatizes the events which led to Galileo's discovery of some of the fundamental laws pertaining to falling bodies and discloses his pioneer work in physical science. Slow motion and stop frame techniques are used to demonstrate Galileo's concepts concerning speeds of falling objects.

Gas laws and their application: Boyle, Charles, and Gay-Lussac (*Motion picture*) Encyclopedia Britannica Films, 1954.

14 min., ed., b&w, 16 mm.

Summary: Describes some of the early research of Robert Boyle, Daniel Bernoulli, Jacques Charles, and Gay-Lussac which led to the discovery of the relationships between the temperature, volume, and pressure of gases. Explains the application of the gas laws in compression, refrigeration, heat engines, and low temperature research.

The gasoline engine (Otto cycle) (*Motion picture*) McGraw-Hill Book Company, Inc., 1952.

8 1/2 min., ed., b&w, 16 mm. (College Physics—Heat and Light Series)

Summary: Intake and compression strokes, combustion, power stroke, valve exhaust, exhaust stroke (represented graphically). Disturbing factors: friction, acceleration, turbulence, heat conduction eliminated. Otto cycle traced on pressure-volume diagram. Concept of thermal efficiency discussed.

Gravity (*Motion picture*) Coronet Instructional Films, 1950.

11 min., ed., color, 16 mm.

Summary: Through a variety of everyday examples explains the force of gravity. Shows attraction in relation to mass and distance, and the effect of gravity on our solar system. Demonstrates and explains mutual attraction between sun and planets.

— Another issue. b&w.

The guiding hand (*Motion picture*) Radio Corporation of America, 1952.

27 min., ed., color, 16 mm.

Summary: Communications on Pennsylvania and New Jersey turnpikes; in steel factories; strip mines; in the United States and abroad.

Heat and pressure (*Motion picture*) Edited Pictures System, 1938.

10 min., ed., b&w, 16 mm.

Summary: Interrelationships between heat, pressure and state of any material substance; principle of refrigeration; characteristics of liquid air; effects on various metals and substances.

How man made day (*Motion picture*) Coronet, 1946.

11 min., ed., color, 16 mm.

Summary: Traces the development of illumination from primitive to modern times. Shows how man learned to reduce the heat and increase the light of fire until light was turned into day by means of artificial light. For intermediate, junior and senior high school grades and adult groups.

— Another issue. b&w.

How motion pictures move and talk (*Motion picture*) Bell & Howell, 1940. Made by John La Panna.

10 min., ed., b&w, 16 mm.

Summary: Explains the technical side of motion picture operation. Illustrates sound recording—variable area and variable density. Uses photographs of sound to help simplify a complex operation.

How television works (*Motion picture*) United World Films, 1952.

10 min., ed., b&w, 16 mm.

Summary: Demonstrates step-by-step the transmission of the televised image from the camera stage to the home receiving set. Through animation shows the work of the TV camera, vacuum tube, and the flow of electrons into the monitor.

How we get our power (*Motion picture*) Young America Films, 1949.

10 min., ed., b&w, 16 mm.

Summary: Explains how power comes from nature and how man has learned to put it to use. Surveys the major sources of power—wind, water, fuels, explosives, and the atom. For upper elementary and high school grades.

Hydraulics (*Motion picture*) Jam Handy Organization, 1936.

8 min., ed., b&w, 16 mm.

Summary: Explains the principle of hydraulic pressure and shows how liquids are used in transmitting power.

The Ideal Diesel cycle: Diesel engine (*Motion picture*) McGraw-Hill Book Co., 1952. Made by Audio Productions.

8 min., ed., b&w, 16 mm. (College physics series)

Summary: Produced with the cooperation of the Visual Aids Committee of the American Association of Physics Teachers. Summary diagrams are used in explaining the six processes in a Diesel engine cycle. Traces the Ideal Diesel cycle on a pressure-volume diagram. Includes a discussion of the factors affecting efficiency.

Ignition and spark plugs (*Motion picture*) Champion Spark Plug Co. Made and released by Bray Studios, 1944.

25 min., ed., b&w, 16 mm.

Summary: Through animated drawings and photography explains the automobile ignition system and its component parts, including spark plugs.

Introduction to physics (*Motion picture*) Coronet Instructional Films, 1949.

11 min., ed., color, 16 mm.

Summary: Illustrates some of the important concepts of physics, provides a basic vocabulary for studying physics, and shows the main divisions of physics. Emphasizes the importance of physics in understanding everyday problems.

— Another issue. b&w.

Jet propulsion (*Motion picture*) Encyclopedia Britannica Films, 1952.

11 min., ed., b&w, 16 mm.

Summary: Illustrates the physical principles on which jet propulsion is based and describes the operation and use of several types of jet engines.

Jet propulsion (*Motion picture*) General Electric Co., 1946. Made by Walt Disney.

15 min., ed., color, 16 mm.

Summary: Chiefly by animation, explains the principles of jet propulsion and the basic operation of the jet engine.

Laws of motion (*Motion picture*) Encyclopedia Britannica Films, 1952.

13 min., ed., color, 16 mm.

Summary: Simple experiments explain the theory of Newton's three laws of motion—the phenomena of momentum and inertia, the concept of acceleration, and the theory of reciprocal attraction of all bodies. Shows everyday applications of these laws.

Learning about heat (*Motion picture*) Encyclopedia Britannica Films, 1955.

8 min., ed., b&w, 16 mm.

Summary: An Encyclopedia Britannica Junior film. With film guide. **Summary:** Demonstrates the properties and characteristics of heat, explaining its effects on matter, and showing how it travels by conduction, convection, and radiation. Animation and live action.

Learning about light (*Motion picture*) Encyclopedia Britannica Films, 1955.

8 min., ed., b&w, 16 mm.

Summary: An Encyclopedia Britannica Junior film. With film guide. **Summary:** An introduction to light and its characteristics, demonstrating by animation and live action such concepts as transparency, transparency, opacity, reflection, and refraction, as revealed to children in their games and experiments. Shows practical applications of light phenomena in optics and everyday life.

PHYSICS

The mysteries of water (Motion picture) Knowledge Builders, 1935.

12 min., ed., color, 16 mm.

With guide and manual.

Summary: Examines water as a chemical, a food, and a beverage. Purveys water, the most common of nature's elements, in turn as man's friend, as a worker, as a builder, and as his enemy and destroyer.

Naturally it's FM (Motion picture) General Electric Co., 1947. Made by Bridgeport.

17 min., ed., color, 16 mm.

With teacher's guide.

Summary: In non-technical language, explains the difference between AM and FM methods of radio broadcasting. Shows how FM overcomes the disadvantages of static, interference, and fading, and how it improves tone quality.

The nature of color (Motion picture) Coronet Instructional Films, 1946.

11 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Demonstrates Newton's explanation of the rainbow, the principles of color reflection and absorption, the mixing of colors by addition and by subtraction, and the application of color principles to painting, printing, and photography. Explains the principles which make color film possible.

The nature of energy (Motion picture) Coronet, 1949.

11 min., ed., color, 16 mm.

With teacher's guide.

Summary: Clarifies the scientific concept of energy by showing the relationship of atomic energy to the other forms of energy in order to have a better understanding of electricity, sound, light, and heat. For intermediate, junior and senior high school, college, and adult groups.

— Another issue. b&w.

The nature of heat (Motion picture) Coronet Instructional Films, 1935.

11 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Explains that heat is the energy of the motion of molecules. Experiments are used to demonstrate that heat is transferred by conduction, convection, and radiation. Shows the effectiveness of various types of material in the transfer of heat.

— Another issue. b&w.

The nature of light (Motion picture) Coronet Instructional Films, 1948.

11 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Shows, through the eyes of two puppets, the principles of reflection and refraction; studies light as a form of radiant energy; and explains these principles as applied to the science of optics.

— Another issue. b&w.

The nature of sound (Motion picture) Coronet Instructional Films, 1947.

11 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Through everyday examples, explains the nature of sound. Studies the principles of sound's vibration, its characteristics, and transmission, and pictures sound on an oscilloscope.

— Another issue. b&w.

Nothing but air (Motion picture) Instructional Films, 1949. Made by Collegiate Films. Released by Encyclopedia Britannica Films.

11 min., ed., b&w, 16 mm. (Experiences in science)

Summary: Portrays a boy's experiences with air. He learns that, though invisible, air is very real; it occupies space, has weight, has power when in motion, and serves man in various ways.

On the level (Motion picture) Jam Handy Organization, 1938.

11 min., ed., b&w, 16 mm.

Summary: Shows how mass and inertia affect straight line progress as illustrated by the action of automobile springs.

The Otto cycle: gasoline engine (Motion picture) McGraw-Hill Book Co., 1925. Made by Audio Productions.

8 min., ed., b&w, 16 mm. (College physics series)

Produced with the cooperation of the Visual Aids Committee of the American Association of Physics Teachers.

Summary: Presents graphically the six processes in the gasoline engine cycle—intake stroke, compression stroke, combustion, power stroke, valve exhaust, and exhaust stroke. Demonstrates the local situation with the elimination of disturbing factors such as friction, acceleration, turbulence, and heat conduction; shows the Otto cycle on a pressure-volume diagram. Includes a discussion of the concept of thermal efficiency.

Our common fuels (Motion picture) Coronet Instructional Films, 1947.

11 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Shows how basic fuels are taken from nature and manufactured by man into other fuels. Compares the use of each fuel on the basis of calorific value, cost, convenience, and cleanliness. Emphasizes the importance of and need for fuel conservation.

— Another issue. b&w.

Planes without pilots (Motion picture) Bell Aircraft Corporation, 1946.

17 min., ed., color, 16 mm.

Summary: Development and use of systems to fly airplanes by remote radio control. Airplanes guided into air from ground control station, flows by accompanying "mother" airplane.

Power (Motion picture) Jam Handy Organization, 1936.

11 min., ed., b&w, 16 mm.

Summary: Depicts power at work in the gasoline engine and automobile. Shows the four-stroke cycle: internal combustion engine going through the complete cycle: intake, compression, power and exhaust.

Power by which we live (Motion picture) The General Electric Company, 1947.

16 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Importance of the turbine engine to modern living.

Preface to physics (Motion picture) Encyclopedia Britannica Films, 1951.

15 min., ed., color, 16 mm.

With film guide.

Summary: Experiments and demonstrations are used to explain the work of well-known physicists, to survey the subject content of beginning physics courses, and to show the practical application of various aspects of physics in the fields of mechanics, heat, sound, light, electricity, and magnetism.

— Another issue. b&w.

The principle of the generator (Motion picture) Young America Films, 1949.

10 min., ed., b&w, 16 mm.

American version of the 1940 British motion picture released under title Electro-magnetic induction.

With teacher's guide.

Summary: Through animation explains the basic principles of electromagnetic induction and relates these principles to the operation of the generator which supplies electric current to homes and factories. For upper elementary grades and junior high schools.

The principles of refrigeration (Motion picture) Knowledge Builders, 1950.

12 min., ed., b&w, 16 mm.

With manual.

Summary: Traces the discovery and development of refrigeration, and shows the application of its principles in commercial and household uses for the preservation of food.

Principles of refrigeration (Motion picture) U. S. Office of Education, 1944. Produced by Graphic Films.

20 min., ed., b&w, 16 mm. (Engineering series)

Order no. GP-380.

Summary: Purpose, nature, and physics of refrigeration; its refrigerant and the refrigeration system; and the two principal types of systems—compression and absorption.

— Another issue. 35 mm.

Problems of flight (Motion picture) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1941.

11 min., ed., b&w, 16 mm.

With manual.

Summary: Explains and illustrates major principles of flight maneuvers. Demonstrates manipulation of the plane's controls while taking off, climbing, banking, diving, gliding, and landing. Contrasts different techniques of various maneuvers with special cases on gliding and landing. Through animated drawings superimposed over aerial photography explains the forces acting upon the plane during flight.

PHYSICS

Progressive waves: transverse and longitudinal (Motion picture) McGraw-Hill Book Co., 1955. Made by Audio Productions.

9 min., ed., b&w, 16 mm. (College physics series)

Produced in collaboration with the Visual Aids Committee of the American Association of Physics Teachers.

Summary: Introduces the subject of transverse progressive waves by illustrating a pulse being sent down a stretched rope. Shows the velocity of travel to be dependent upon the elastic and inertial factors. Employs a stretched string to show steady wave train propagation, and identifies and relates wave length and frequency. Longitudinal wave disturbance is shown by a pulse moving down a row of beads connected by light-weight springs. Animated drawings.

Properties of water (Motion picture) Coronet Instructional Films, 1947.

11 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide.

Summary: Answers questions concerning the properties and characteristics of water. Demonstrates experiments with electrolysis, boiling and freezing points, distillation, solutions, crystallization, filtration, and pressure cooking.

— Another issue. b&w.

The questing mind (Motion picture) General Motors Corp., Research Laboratories Division. Released by General Motors Corp., 1951.

20 min., ed., color, 16 mm.

Summary: Pictures the activities of General Motors Research Laboratories in many fields. Shows the various machines and apparatus used, and explains the importance of industrial research.

Quicker's wink (Motion picture) Metro-Goldwyn-Mayer. Released for educational purposes by Teaching Film Consultants, 1942.

9 min., ed., b&w, 16 mm. (Feta Smith specialties series)

With teacher's guide.

Summary: Demonstrates the stereoscopic camera and explains how it can photograph the motion of objects. Shows in both fast and slow motion an electric fan, a football player kicking a ball, a golfer driving a ball, a kitten leaping milk, the breaking of a bubble with a pencil, a dentist drilling a tooth, a drop of milk falling on a pan, and the motion of hummingbird wings.

Radio antennas: Creation and behavior of radio waves (Motion picture) U. S. Army Air Forces, 1945. Released for public educational use through U. S. Office of Education, 1945.

12 min., ed., b&w, 16 mm.

Order no. TP-1-474.

Summary: Explains electric and magnetic fields, generation of electromagnetic waves, behavior of radio waves in space, ground wave, reflection and refraction, the ionosphere, and causes of fading.

Radio antennas: Fundamentals of the antenna (Motion picture) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Civil Aeronautics Administration, 1951.

13 min., ed., b&w, 16 mm.

Order no. TP-1-475.

Summary: Depicts various types of antennas and explains some of the fundamental characteristics of antennas. Shows how the effective length of an antenna can be altered and how standing waves are prevented from forming in transmission lines; and shows typical circuits for voltage and current-fed antennas.

PHYSICS

Learning about sound (Motion picture) Encyclopaedia Britannica Films, 1955.

8 min., ed., b&w, 10 mm. (Junior science series, no. 1)

An Encyclopaedia Britannica Junior Film.

With film guide.
Summary: Animation and experimental demonstrations are used to explain how sound is made, how it travels, and how it is perceived. Analyzes the three common methods of making sound—the vibration of a string, the vibration of a hard surface, and the vibration of air column. For primary and middle grades.

Light's cube (Motion picture) Loew's International Corp. Released by McGraw-Hill Book Co., 1910.

10 min., ed., b&w, 10 mm. (Physics demonstrations)

Summary: Demonstrates the heat radiation of various substances.

Light all about us (Motion picture) Coronet Instructional Films, 1961.

11 min., ed., color, 10 mm. (Exploring science)

With teacher's guide.
Summary: Explains the properties of light as observed by a child: reflection, which makes objects visible; and refraction, which bends light when seen through water and through lenses.

— Another issue, b&w.

Light and power (Motion picture) Twentieth Century-Fox Film Corp., in cooperation with the Educational Dept. of Film, Inc. Released by Instructional Films, 1947.

10 min., ed., b&w, 10 mm. (For teacher and people)

Summary: Traces the development of electric power from the discovery of magnetism in ancient times to the use of electricity for the lighting of cities. Discusses the interrelationships between electricity and the needs of society.

Light and shadow (Motion picture) Leonard Peck Productions. Released by Young America Films, 1960.

11 min., ed., b&w, 10 mm.

With teacher's guide.
Summary: Discusses the nature and behavior of light, demonstrates how light rays are reflected, and explains such terms as luminous, transparent, translucent, and opaque. For elementary school grades.

Light control through polarization (Motion picture) The Polaroid Corporation, 1946.

13 min., ed., b&w, 16 mm.

— Another issue, color.

Summary: Theory of light waves; how they act; how action of light waves can be controlled; made to change direction and to focus. Comparison of white light; each color has its own wave length. How polarization controls intensity of light. Ocean polarization. Use of polarized filters in airplanes and automobiles. Use of polaroscopes to determine structure of objects and atoms it will take. How polaroscopes work.

Light is what you make it (Motion picture) Better Light Better Sight Bureau, 1949. Made by Walt Disney Productions.

10 min., ed., color, 16 mm.

With teacher's guide.
Summary: An animated cartoon explaining basic facts of seeing, and pointing out the importance of modern lighting to the eye and to seeing.

Light waves and their uses (Motion picture) Erpi Picture Consultants (later name Encyclopaedia Britannica Films) 1957

11 min., ed., b&w, 10 mm.

With film guide.
Summary: Shows the principles of reflection and refraction of light, illustrating refraction through lenses, and reflection from plane, convex, and concave mirrors. Explains the human eye as a lens, depicts the use of light waves in making minute measurements, and calls attention to interference, electromagnetic spectrum, and principles and uses of polar spectra. For high school, college, and adult groups.

Machines do work (Motion picture) Leonard Peck Productions. Released by Young America Films, 1949.

11 min., ed., b&w, 10 mm.

With teacher's guide.
Summary: Discusses the use of the lever, the inclined plane, the pulley, and the wheel and axle. Illustrates how machines help make our work easier. For elementary grades.

Magic of fluorescence (Motion picture) The General Electric Company, 1916.

17 min., ed., color, 10 mm.

Summary: Principles of fluorescence; fluorescent lighting explained; manufacture of fluorescent lamp described.

The magnet (Motion picture) Edited Pictures System, 1958.

10 min., ed., b&w, 10 mm.

— Another issue, silent.

Summary: Discoveries of magnetism are by Greeks about 800 B.C. Various discoveries which have made utilization possible; experiments illustrate these discoveries. Fundamental and principles of magnetism and electricity; how they have made modern power development possible.

Magnetism (Motion picture) Coronet Instructional Films, 1947.

11 min., ed., color, 16 mm.

With teacher's guide.
Summary: Examines magnetism—what it is, how it differs from electricity, and how it works. Through a student's explanation of its relation to his friend, demonstrates the types of permanent magnets, attraction and repulsion, making of magnets, fields of force, electromagnetism, and the everyday uses of magnets.

— Another issue, b&w.

Magnetism (Motion picture) Encyclopaedia Britannica Films, 1953.

10 min., ed., b&w, 16 mm.

An adaptation of the film made by Guild Holdings for the Educational Film Library of British Electrical Development Association.

With film guide.
Summary: Experiments and demonstrations are used to present a study of the laws of polarity, the magnetic field, and electrical magnetism. Reveals that magnetism is a basic property of atoms and molecules. Shows that electric currents are responsible for magnetism on the atomic scale. Explains the domain structure in ferromagnetic materials. Discusses a variety of modern applications of magnetism, the development of soft magnetic materials, and the important role of magnetism in our technological civilization.

Magnets (Motion picture) Young America Films, 1946.

13 min., ed., b&w, 10 mm.

With teacher's guide.
Summary: Two children learn about the nature and behavior of temporary and permanent magnets. Shows that like poles repel and unlike poles attract each other; that a suspended bar magnet acts as a compass needle; that a piece of steel can be magnetized and made into a bar magnet; and that the magnetic force of a magnet will go through such things as glass and paper. For elementary grades.

Malina corrosion (Motion picture) University of Miami, 1953.

14 min., ed., b&w, 16 mm.

Summary: Corrosion costs millions of dollars yearly, seriously depletes supply of steel; particularly damaging to marine structures. Research seeking to improve methods of forestalling corrosion.

Matter and energy (Motion picture) Coronet Instructional Films, 1947.

11 min., ed., color, 16 mm.

With teacher's guide.
Summary: Explains that everything in the universe is either matter or energy. Illustrates, through the sound and motion of actual examples, matter and its different forms, physical and chemical change, and the laws of conservation of matter and energy.

— Another issue, b&w.

Measurement of the speed of light (Motion picture) McGraw-Hill Book Co., 1922. Made by Audio Productions.

8 min., ed., b&w, 10 mm. (College physics series)

Produced with the cooperation of the Visual Aids Committee of the American Association of Physics Teachers.
Summary: A rotating light beam is used in describing the toothed-wheel method of Fizeau. Michelson's modification of Fizeau's method is explained by reflecting the light beam from a rotating eight-sided mirror.

Measurement with light waves (Motion picture) U. S. Office of Education, 1944. Made by Audio Productions.

15 min., ed., b&w, 16 mm. (Engineering series)

Order as OE 17.
With teacher's manual. Supplementary filmstrip of same title also available.
Summary: Principles of measurement with light waves; nature of light waves, cause of interference bands and use of these bands in ultra-precision measurement. Procedures used in high block inspection.

— Another issue, 35 mm.

Measuring temperature (Motion picture) Key Productions. Released by Young America Films, 1951.

11 min., ed., b&w, 16 mm.

Previously released under title The thermometer.
With teacher's guide.
Summary: Describes the thermometer as an example, explains the principle of contraction and expansion. Shows how liquid and metal thermometers work. For elementary and junior high school grades.

PHYSICS

Mechanics of liquids (Motion picture) Coronet Instructional Films, 1949.

11 min., ed., color, 16 mm.

With teacher's guide.
Summary: Relates hydrostatics to everyday objects by showing that water systems in towns and on farms serve us through definite scientific principles. Interprets Pascal's law of pressure on confined liquids in terms of hydraulic machines, and Archimedes' principle of buoyancy in terms of swimming. Includes animation.

— Another issue, b&w.

Mechanics of vibration (Motion picture) Minnesota University Audio-Visual Education Service, 1939.

20 min., ed., b&w, 16 mm.

Summary: Demonstrates simple vibration using a vertical coil spring, a cantilever beam, and a pendulum. Shows the effects of forced vibration with con, two, and several degrees of freedom, both at normal speed and in slow motion. Moving charts of the amplitude of motion accompany each demonstration. Analyzes the application of these principles to a Diesel engine.

Mercury (Motion picture) Edited Pictures System, 1927.

10 min., ed., b&w, 16 mm.

Summary: Reveals nature and origin of mercury (quicksilver); experiments show peculiarities and uses. Principles of liquid air; two different scales of mercury.

Michael discovers the magnet (Motion picture) Encyclopaedia Britannica Films, 1955.

11 min., ed., b&w, 10 mm.

With teacher's guide.
Summary: A third-grade boy becomes interested in magnetism, discovers through home experimentation the common properties of magnets, demonstrates magnetic phenomena in a show for his friends, and learns of the uses of magnets in electrical equipment such as loudspeakers, telephone receivers, and motors.

Miracle makers (Motion picture) Warner Bros. Pictures, 1941. Released for educational purposes by Teaching Film Custodians, 1946.

11 min., ed., b&w, 16 mm.

Summary: Traces the development of water, steam, and electric power; pictures the wonders at the University of California; and stresses the importance of the atom as a source of power.

Molecular theory of matter (Motion picture) Erpi Picture Consultants (later name Encyclopaedia Britannica Films) in cooperation with the University of Chicago, 1932.

11 min., ed., b&w, 16 mm.

With film guide.
Summary: Describes the theory that all matter consists of molecules in motion. Points out molecular aspects of the diffusion of gases in air and vacuum, condensation of steam, evaporation of liquids, and transformation of liquids into solids. Explains force exerted by molecules in motion by using machine gun analogy. Microscopic photographs demonstrate Brownian movement. For high school, college, and adult groups.

Moving X-rays (Motion picture) Almanac Films, Inc., 1951.

10 min., ed., b&w, 16 mm.

Summary: Use of X-rays shown in motion picture film; action inside human anatomy made visible.

PHYSICS

The mysteries of water (Motion picture) Knowledge Builders, 1938.

12 min., ed., b&w, 16 mm.
With guide and manual.
Summary: Discusses water as a chemical, a food, and a beverage. Portrays water, the most common of nature's elements, in turn as man's friend, as a worker, as a builder, and as his enemy and destroyer.

Naturally it's FM (Motion picture) General Electric Co., 1947. Made by Videopoint.

11 min., ed., color, 16 mm.
Summary: In non-technical language, explains the difference between AM and FM methods of radio broadcasting. Shows how FM overcomes the disadvantages of static, interference, and fading, and how it improves tone quality.

The nature of color (Motion picture) Coronet Instructional Films, 1946.

11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Demonstrates Newton's explanation of the rainbow, the principles of color reflection and absorption, the mixing of colors by addition and by subtraction, and the application of color principles to painting, printing, and photography. Explains the principles which make color film possible.

The nature of energy (Motion picture) Coronet, 1949.

11 min., ed., color, 16 mm.
With teacher's guide.
Summary: Clarifies the scientific concept of energy by showing the relationship of kinetic energy to the other forms of energy in order to have a better understanding of electricity, sound, light, and heat. For intermediate, junior and senior high school, college, and adult groups.

— Another issue. b&w.

The nature of heat (Motion picture) Coronet Instructional Films, 1935.

11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Explains that heat is the energy of the motion of molecules. Experiments are used to demonstrate that heat is transferred by conduction, convection, and radiation. Shows the effectiveness of various types of material in the transfer of heat.

— Another issue. b&w.

The nature of light (Motion picture) Coronet Instructional Films, 1943.

11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Observes, through the eyes of two youngsters, the principles of reflection and refraction; studies light as a form of radiant energy; and explains these principles as applied to the science of optics.

— Another issue. b&w.

The nature of sound (Motion picture) Coronet Instructional Films, 1947.

11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Through everyday examples, explains the nature of sound. Studies the principles of sound's vibration, its characteristics, and transmission, and pictures sound on an oscilloscope.

— Another issue. b&w.

Nothing but air (Motion picture) Instructional Films, 1940. Made by Collingtree Films. Released by Encyclopedia Britannica Films.

11 min., ed., b&w, 16 mm. (Experiences in science)
Summary: Portrays a boy's experiences with air. He learns that, though invisible, air is very real; it occupies space, has weight, has power when in motion, and serves man in various ways.

On the level (Motion picture) Jam Handy Organization, 1938.

11 min., ed., b&w, 16 mm.
Summary: Shows how mass and inertia affect straight line progress as illustrated by the action of automobile springs.

The Otto cycle: gasoline engine (Motion picture) McGraw-Hill Book Co., 1932. Made by Audio Productions.

8 min., ed., b&w, 16 mm. (College physics series)
Produced with the cooperation of the Visual Aids Committee of the American Association of Physics Teachers.
Summary: Presents graphically the six processes in the gasoline cycle: intake stroke, compression stroke, combustion, power stroke, valve exhaust, and exhaust stroke. Demonstrates the ideal situation with the elimination of disturbing factors such as friction, acceleration, turbulence, and heat conduction; traces the Otto cycle on a pressure-volume diagram. Includes a discussion of the concept of thermal efficiency.

Our common fuels (Motion picture) Coronet Instructional Films, 1947.

11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Shows how basic fuels are taken from nature and manufactured by man into other fuels. Compares the use of each fuel as the basis of caloric value, cost, convenience, and cleanliness. Emphasizes the importance of fuel and fuel conservation.

— Another issue. b&w.

Planes without pilots (Motion picture) Bell Aircraft Corporation, 1945.

17 min., ed., color, 16 mm.
Summary: Development and use of systems to fly airplanes by remote radio control. Airplanes guided into air from ground control station, flown by accompanying "mother" airplane.

Power (Motion picture) Jam Handy Organization, 1936.

11 min., ed., b&w, 16 mm.
Summary: Depicts power at work in the gasoline engine and automobile. Shows the four-stroke cycle internal combustion engine going through the complete cycle: intake, compression, power, and exhaust.

Power by which we live (Motion picture) The General Electric Company, 1947.

15 min., ed., color, 16 mm.
Summary: Importance of the turbine engine to modern living.

Preface to physics (Motion picture) Encyclopedia Britannica Films, 1954.

15 min., ed., color, 16 mm.
With film guide.
Summary: Experiments and demonstrations are used to explain the work of well-known physicists to survey the subject matter of beginning physics courses, and to show the practical application of various aspects of physics in the fields of mechanics, heat, sound, light, electricity, and magnetism.

— Another issue. b&w.

The principle of the generator (Motion picture) Young American Films, 1940.

10 min., ed., b&w, 16 mm.
American version of the 1940 British motion picture released under title *Electromagnetic Induction*.
Summary: Through animation explains the basic principles of electromagnetic induction and relates those principles to the operation of the generator which supplies electric current to homes and factories. For upper elementary grades and junior high schools.

The principles of refrigeration (Motion picture) Knowledge Builders, 1930.

12 min., ed., b&w, 16 mm.
With manual.
Summary: Traces the discovery and development of refrigeration, and shows the application of its principles in commercial and household uses for the preservation of food.

Principles of refrigeration (Motion picture) U. S. Office of Education, 1944. Produced by Graphic Films.

20 min., ed., b&w, 16 mm. (Engineering series)
Order no. OES-200.
With instructor's manual. Supplementary filmstrip of same title also available.
Summary: Purpose, nature, and physics of refrigeration; the refrigerant and the refrigeration system; and the two principal types of systems—compression and absorption.

— Another issue. 35 mm.

Problems of flight (Motion picture) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1941.

11 min., ed., b&w, 16 mm.
Summary: Explains and illustrates major principles of flight maneuvers. Demonstrates manipulation of the plane's controls while banking, climbing, descending, gliding, diving, and landing. Contrasts different techniques of various maneuvers with special emphasis on climbing and landing. Through animated drawings supplemented over natural photography explains the forces acting upon the plane during flight.

PHYSICS

Progressive waves: transverse and longitudinal (Motion picture) McGraw-Hill Book Co., 1953. Made by Audio Productions.

9 min., ed., b&w, 16 mm. (College physics series)
Produced in collaboration with the Visual Aids Committee of the American Association of Physics Teachers.
Summary: Introduces the subject of transverse progressive waves by illustrating a pulse being sent down a stretched rope. Shows its velocity of travel to be dependent upon the elastic and inertial factors. Employs a stretched string to show steady wave train propagation, and identifies and relates wave length and frequency. Longitudinal wave disturbance is shown by a pulse moving down a row of beads connected by light-weight springs. Animated drawings.

Properties of water (Motion picture) Coronet Instructional Films, 1947.

11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Answers questions concerning the properties and characteristics of water. Demonstrates experiments with electricity, melting and freezing points, distillation, solubility, crystallization, filtration, and pressure cooking.

— Another issue. b&w.

The questing mind (Motion picture) General Motors Corp., Research Laboratories Division. Released by General Motors Corp., 1951.

20 min., ed., color, 16 mm.
Summary: Pictures the activities of General Motors Research Laboratories in many fields. Shows the various machines and apparatus used, and emphasizes the importance of industrial research.

Quicker's wink (Motion picture) Metro-Goldwyn-Mayer. Released for educational purposes by Teaching Film Cautodians, 1942.

9 min., ed., b&w, 16 mm. (Five Smith specialties series)
Summary: Demonstrates the stroboscopic camera and explains how it can photograph the motion of objects. Shows in both fast and slow motion an electric fan, a football player kicking a ball, a golfer driving a ball, a kitten leaping onto the back of a sofa with a pencil, a dentist drilling a tooth, a drop of milk falling on a pan, and the motion of humming bird wings.

Radio antennas: Creation and behavior of radio waves (Motion picture) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Office of Education, 1945.

12 min., ed., b&w, 16 mm.
Order no. TP-1-474.
Summary: Explains electric and magnetic fields, generation of electromagnetic waves, behavior of radio waves in space, ground wave, reflection and refraction, the ionosphere, and causes of fading.

Radio antennas: Fundamentals of the antenna (Motion picture) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Civil Aeronautics Administration, 1951.

13 min., ed., b&w, 16 mm.
Order no. TP-1-475.
Summary: Depicts various types of antennas and explains some of the fundamental characteristics of each; explains how the effective length of an antenna can be altered and how standing waves are prevented from forming in transmission lines; and shows typical circuits for voltage and current-fed antennas.

PHYSICS

Radio-frequency heating (*Motion picture*) Westinghouse Electric Corporation, 1947.

40 min., ed., color, 16 mm.
Summary: Theory of induction and of dielectric heating explained and practical applications shown.

Radio receivers: Principles of radio receivers (*Motion picture*) U. S. Army Air Force, 1942. Released for public educational use through U. S. Office of Education, 1944.

37 min., ed., b&w, 16 mm.
Order no. TP-1-472.
Summary: Portrays the principles and working of typical radio receivers, including crystal and tube detectors, radio and audio frequency amplification, and the superheterodyne circuit.

Radio transmitters: Principles and typical circuits (*Motion picture*) U. S. Army Air Force, 1942. Released for public educational use through U. S. Civil Aeronautics Administration, 1951.

18 min., ed., b&w, 16 mm.
Order no. TP-1-474.
Summary: Shows the principal parts of radio transmitters and how they function—the antenna and its purpose, a simple oscillator and its functions, the Hartley oscillator circuit, the amplifier, and how the microphone is connected in the circuit.

Receiving radio messages (*Motion picture*) Encyclopedia Britannica Films, 1953.

11 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Through animated drawings, presents the basic principles of radio reception. Explains the function of the variable condenser and capacitor, the antenna, the detector, and the amplifier. Illustrates through simple demonstrations how a crystal detector radio works, and how an earphone produces audible sound waves.

Riding the film (*Motion picture*) Jam Handy Organization, 1953.

11 min., ed., b&w, 16 mm.

Summary: Discusses the problem of lubrication, and shows how oil circulates to various points in the automobile.

Romance of radium (*Motion picture*) Metro-Goldwyn-Mayer, 1937. Released for educational purposes by Teaching Film Custodians, 1950.

10 min., ed., b&w, 16 mm. (Pete Smith specialties series)
Summary: Presents the story of the discovery of radium. Describes the experiments of Becquerel and the Curies, the discovery of pitchblende deposits in the Jagersfontein, and the curative as well as destructive power of radium.

Sailplane (*Motion picture*) Instructional Films, Inc., 1947.

11 min., ed., b&w, 16 mm.
—Another issue. color.
Summary: Peace-time gliding. With camera fastened to wings, a 200-pound motorless plane takes spectator on flight high over cliffs and across. The take-off, piloting, construction, assembly, wind-currents and landings.

See how they fly (*Motion picture*) Thomas Craven Films Corp. Released by Pictur Films Corp., 1954.

11 min., ed., color, 16 mm. (The world around us no. 24)
With study guide.
Summary: Through slow-motion accentuates the graceful beauty of birds in flight, showing the fast and precise changes in the shape and position of the wings and feathers. Compares their similarity in position and function to the airplane propeller and wing. Includes scenes of the swallow-tailed kite, the black skimmer, the woodcock, and the scup duck.

Seeing the unseen (*Motion picture*) Massachusetts Institute of Technology, 1956.

12 min., ed., b&w, 16 mm.
Summary: Explorations of world of motion, invisible to unaided eyes. Formation and splashing of milk drops, including formation of large bubbles; shaper cutting metal; splash of iron in briars; flow of water from jet; sawing machine; breaking of cups on floor; human muscles in action; humming birds in flight.

Sending radio messages (*Motion picture*) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1943.

11 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Explains the basic principles of radio transmission and the importance of radio in modern living. Through animated drawings shows the operation of the microphone, transformer, and modulator. Explains direct, alternating, and voice currents; carrier waves and amplification. Demonstrates through natural photography the operation of units in a modern transmission station.

Shining rails (*Motion picture*) The General Electric Company, 1951.

20 min., ed., color, 16 mm.
Summary: Evolution in United States of locomotive power from steam through electric and diesel-electric to latest super-powered gas-turbine electric locomotives; these developments have kept pace with ever-growing demands of nation. Operational mechanics of country's complex railway network; applications of electricity.

Ships that see in the night (*Motion picture*) Radio Corporation of America, 1950.

30 min., ed., color, 16 mm.
Summary: Marine radar equipment at work on United States Coast Guard cutters, ice patrol boats, ferries, whaling vessels, tugs; how radar helps to berth liners. Close-up of equipment. Rescue of 100 persons from fog-bound waters of Kattegat by radar-equipped S. S. Stockholm.

Simple changes in matter (*Motion picture*) Coronet, 1953.

11 min., ed., color, 16 mm.
With study guide.
Summary: School students learn the differences between chemical and physical changes and observe the changes in simple matter as evidenced in soil erosion, metal expansion, for molting; leaves changing color, and ice melting.

—Another issue. b&w.

Simple harmonic motion (*Motion picture*) McGraw-Hill Book Co., 1953. Made by Audio Productions.

10 min., ed., b&w, 16 mm. (College physics series)
Produced in collaboration with the Visual Aids Committee of the American Association of Physics Teachers.
Summary: Illustrates the different means of creating a force upon a given body. Introduces Hooke's law, explains the simple harmonic motion, and the relation between the simple harmonic motion and Fourier's law, and concludes with a brief consideration of the geometry involved. Animated drawings.

Simple machines (*Motion picture*) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1941.

11 min., ed., b&w, 16 mm.
Summary: Explains and demonstrates six basic machines and reveals how all machines, however complicated, are merely combinations of these. Describes basic aspects of the inclined plane, the wedge, the screw, the lever, the pulley, and the wheel. Through natural photography and animated drawings, demonstrates the application of these devices in complex machines and explains the mechanical principles involved.

Solids, liquids, and gases (*Motion picture*) Young America Films, 1949.

10 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Identifies solids, liquids, and gases, illustrating how matter exists in these three forms. Demonstrates how a substance can be changed from one of these forms to another by the presence of absence of heat. For elementary grades.

Sound (*Motion picture*) Edited Pictures System, 1938.

10 min., ed., b&w, 16 mm.
Summary: Vibratory character of sound; frequency and character of sound waves; pitch, loudness, timbre, harmony; interaction of simultaneous but different sounds.

Sound recording and reproduction (*Motion picture*) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1943.

11 min., ed., b&w, 16 mm.
Summary: Through animated drawings explains the principles of recording and reproducing sound on film. Through demonstration shows the functions of the microphone and the light valve and shows how the motion picture projector reproduces sound from a sound track. Contrasts variable area and variable density sound tracks and describes the functions of the vacuum tube amplifier and the phonographic cut.

Sound waves and their sources (*Motion picture*) Encyclopedia Britannica Films, 1950.

11 min., ed., b&w, 16 mm.
With film guide.
Summary: Shows how sounds in our environment originate in an object that vibrates, and explains the meaning of loudness, pitch, and quality. For high school, college, and adult groups.

Sounds all about us (*Motion picture*) Coronet Instructional Films, 1954.

11 min., ed., color, 16 mm. (Exploring sciences)
With study guide.
Summary: While watching and listening to a television program, a young boy begins to think about sound. He learns that vibrations in the air are what we hear, and that sounds differ and can be identified through the characteristics of loudness, pitch, and quality.

—Another issue. b&w.

PHYSICS

The sounds of music (*Motion picture*) Coronet Instructional Films, 1947.

11 min., ed., color, 16 mm.
Kodachrome.
With teacher's guide.
Summary: Examines the characteristics of musical sound by going on a tour of a music store. Demonstrates the principles of amplitude, quality, and frequency with the sounds and grooves of a phonograph record, as well as with aerics, wind, and percussion instruments.

—Another issue. b&w.

The speed of light: measurement and application (*Motion picture*) Encyclopedia Britannica Films, 1955.

14 min., ed., b&w, 16 mm.
With film guide.
Summary: Shows how the observations and experiments of Galileo, Oleaf Roemer, Armand Fizeau, and Albert Michelson contributed toward man's knowledge of the speed of light. Points out that many modern developments have been made possible because of man's ability to measure the speed of light.

Spinning levers (*Motion picture*) Jam Handy Organization, 1937.

11 min., ed., b&w, 16 mm.
Summary: Discusses levers, and how it is used in the automobile. Explains the principle of the lever, and shows the relation of the lever to the gears in an automobile.

Stationary longitudinal waves (*Motion picture*) McGraw-Hill Book Co., 1953. Made by Audio Productions.

9 min., ed., b&w, 16 mm. (College physics series)
Produced in collaboration with the Visual Aids Committee of the American Association of Physics Teachers.
Summary: A string of beads connected by light-weight springs is employed to illustrate the nature of stationary longitudinal waves. Both a pulse and a steady train of waves are shown. The situation at a fixed end and at a free end is discussed, and a brief consideration given pipe resonance. Animated drawings.

Stationary transverse waves (*Motion picture*) McGraw-Hill Book Co., 1953. Made by Audio Productions.

9 min., ed., b&w, 16 mm. (College physics series)
Produced in collaboration with the Visual Aids Committee of the American Association of Physics Teachers.
Summary: Animated drawings are used in explaining the nature of stationary waves. Includes demonstrations of pulse reflection at the fixed end of a stretched string, the reflection of a steady wave train at the string boundary, and the compounding of oppositely traveling wave trains. Identifies nodes and antinodes, and shows the resonance patterns for a stretched string of limited length.

The story of the microscope (*Motion picture*) Knowledge Builders, 1938.

12 min., ed., b&w, 16 mm.
With guide and manual.
Summary: Traces the history of the development of the microscope and discusses its many contributions to man's knowledge.

Story of the spark plug (*Motion picture*) Champion Spark Plug Company, 1942.

22 min., ed., b&w, 16 mm.
Summary: Manufacture and use of the spark plug; nonconductive, cut-away drawings, function in gasoline engine; assembly, inspection, testing of chemical and physical properties of materials used in making of plug.

PHYSICS

Television how it works (Motion picture) Coronet, 1950.

11 min., ed., color, 16 mm.

Summary: Shows within a television station are used to explain the basic principles of television broadcasting and reception. Shows the operation of various parts of a television station, including the camera, the transmitter, the receiver, the antenna, and the picture tube.

— Another issue. b&w.

The television system (Motion picture) McGraw-Hill Book Co., 1950. Made by Loucks and Sterling Studios.

11 min., ed., color, 16 mm. (Television principles and operation)

Summary: Explains the basic principles of television broadcasting and reception. Shows the operation of various parts of a television station, including the camera, the transmitter, the receiver, the antenna, and the picture tube. Explains the function of each component of the television system and shows how the television picture is produced from the image reproduced in the picture tube.

Theory of flight (Motion picture) Reel Classroom Films (later name Encyclopedia Britannica Films) 1951.

11 min., ed., b&w, 16 mm.

Summary: Explains the basic principles of airplane flight by illustrating the application of physical laws to forces acting on an airplane. Shows how lift, thrust, drag, and weight are related to the flight of an airplane. Explains the function of the various parts of an airplane, including the wings, the engine, the propeller, and the landing gear.

Theory of operation of the four pole magnet (Motion picture) Heath Aviation Corporation, 1948.

30 min., ed., b&w, 16 mm. (Aircraft Magnetism)

Summary: Theory of operation and assembly of four-pole aircraft magnet.

Thermodynamics (Motion picture) Reel Classroom Films (later name Encyclopedia Britannica Films) 1950.

11 min., ed., b&w, 16 mm.

Summary: Explains the basic principles of thermodynamics by illustrating the application of physical laws to the behavior of gases. Shows how the temperature, pressure, and volume of a gas are related to the motion of its molecules. Explains the function of the various parts of a thermodynamic system, including the piston, the cylinder, and the heat engine.

The thermometer (Motion picture) Instructional Films, Inc., 1949.

10 min., ed., b&w, 16 mm. (Experiments in Science Series)

Summary: How the thermometer, liquid and solid, are constructed. Simple experiments demonstrating principle of expansion and contraction on which all thermometers work.

Things expand when heated (Motion picture) Crown Corp., Released by Young America Films, 1948.

11 min., ed., b&w, 16 mm.

Summary: Demonstrates by animation and photographs the expansion of various materials when heated. Shows that the expansion of a material is directly proportional to the change in temperature. Explains the function of the various parts of a thermodynamic system, including the piston, the cylinder, and the heat engine.

Thunder and lightning (Motion picture) Leonard Peck Productions. Released by Young America Films, 1950. © Leonard Peck Productions; INOVA; MP1951.

11 min., ed., b&w, 16 mm.

Summary: Explains the phenomena of thunder and lightning as an introduction to the study of electricity.

Tyndall's apparatus (Motion picture) Leach's International Corp., Released by McGraw-Hill Book Co., 1950.

10 min., ed., b&w, 16 mm. (Physics demonstrations)

Summary: Demonstrates the heat capacity of various substances.

Uniform circular motion (Motion picture) McGraw-Hill Book Co., 1950. Made by Audio Productions.

8 min., ed., b&w, 16 mm. (Other physics series)

Produced with the cooperation of the Visual Aids Committee of the American Association of Physics Teachers.

Summary: Explains and demonstrates uniform circular motion. Shows the relationship between velocity, acceleration, and centripetal force.

The use of the microscope (Motion picture) Merrill J. Shapiro, made 1949. Released by Scientific Film Co.

10 min., ed., color, 16 mm.

Summary: Explains the parts of the microscope, optical principles, types of microscopes, adjustment of light source and optical elements, and use of the microscope. Shows the technique of microscopy, oil immersion technique, and care of instruments, and errors common to beginners.

Vibratory motions and waves (Motion picture) Edited Pictures System, 1955.

20 min., ed., b&w, 16 mm.

Summary: Wave lengths, amplitudes, nodes, anti-nodes, reflection, refraction, diffraction, interference, standing waves, and undamped waves, phase differences, explained by use of vibrating string of beads, clock hands recording on paper, surface water waves and other devices.

Water cycle (Motion picture) Encyclopedia Britannica Films, 1947.

11 min., ed., b&w, 16 mm.

Summary: Tells the story of the endless cycle of water from earth to sky to earth. Shows the water cycle in detail, including evaporation, condensation, precipitation, and runoff. Explains the function of the various parts of the water cycle, including the clouds, the rain, the snow, and the ice.

Water in the air (Motion picture) Simmel-Mercery, Released by Instructional Films, 1950.

11 min., ed., b&w, 16 mm.

Summary: Two boys on a farm learn about the water cycle by simple observation and experiment. Shows that the water cycle is a continuous process that involves evaporation, condensation, precipitation, and runoff. Explains the function of the various parts of the water cycle, including the clouds, the rain, the snow, and the ice.

Water power (Motion picture) Erpi Picture Consultants (later name Encyclopedia Britannica Films) 1937.

11 min., ed., b&w, 16 mm.

Summary: Presents the concept of water as a power source, and demonstrates how man has learned to harness this power. Shows the development of water power from small waterfalls to giant modern hydroelectric plants. Through animated drawings, illustrates the transformation of potential energy into kinetic energy as water flows through a turbine. Concludes with a world-wide survey of potential water power. For junior and senior high school, and adult groups.

Water, water everywhere: observing things about us (Motion picture) Coronet Instructional Films, 1954.

11 min., ed., color, 16 mm.

Summary: A young boy discovers the importance of water. Explains the properties of water, such as its ability to dissolve many substances, its high boiling point, and its high heat capacity. Shows the importance of water in our daily lives.

— Another issue. b&w.

Water works for us (Motion picture) Leonard Peck Productions. Released by Young America Films, 1949.

10 min., ed., b&w, 16 mm.

Summary: Illustrates the many ways in which water works for us in our everyday life as a liquid, as a gas, and as a solid. Explains the basic principle of water pressure. For elementary grades.

Waves in a string (Motion picture) Leach's International Corp., Released by McGraw-Hill Book Co., 1949.

10 min., ed., b&w, 16 mm. (Physics demonstrations)

Summary: Demonstrates the relation of harmonics to string tones.

We make a fire (Motion picture) Films Incorporated. Released by Instructional Films, 1948.

11 min., ed., b&w, 16 mm. (Experiments in science)

Summary: A father and his three children, while on a picnic, learn about fire. Shows that to make a fire burn it is necessary to have something to burn, enough heat to start and keep it burning, and enough air for the fire. Points out that fire is a useful servant, but can become a dangerous enemy.

We use power (Motion picture) Churchill-Wooder Film Productions, 1956.

11 min., ed., b&w, 16 mm.

— Another issue. color.

Weighing with analytical balance (Motion picture) Audio-Visual Service, University of Minnesota. Released by Encyclopedia Britannica Films, 1952.

11 min., ed., b&w, 16 mm.

Summary: Explains the practical value of the analytical balance, which can weigh objects to an accuracy of one-fiftieth of a pound. Points out and explains the various parts of the instrument, and demonstrates the basic principles and procedures involved in its use. Analyzes each step in using the balance to weigh a sample of sugar.

PHYSICS—Electricity

What is sound? (Motion picture) Leonard Peck Productions. Released by Young America Films, 1940.

11 min., ed., b&w, 16 mm.

Summary: Explains the nature, source, and transmission of sound waves. Shows that all sound is caused by vibration; demonstrates how sound travels through solids, liquids, and gases; and explains why sounds vary in pitch. For elementary grades.

What makes things float (Motion picture) Key Productions. Released by Young America Films, 1951.

11 min., ed., b&w, 16 mm.

Summary: Explains why things float or sink in water. Shows that the buoyant force on an object is equal to the weight of the fluid displaced by the object. For elementary and junior high school grades.

Where mileage begins (Motion picture) General Motors Corp., 1949. Made by Audio Productions.

19 min., ed., b&w, 16 mm.

Summary: Explains what makes a gasoline engine work; how it works; and how it is controlled. Shows how the engine is connected to the wheels and how it is controlled by the driver. Explains the function of the various parts of the engine, including the piston, the cylinder, and the valve.

PHYSICS—Electricity

Basic electricity (Motion picture) U. S. Dept. of the Air Force in cooperation with Minneapolis-Honeywell Regulator Co., 1948. Produced by Walt Disney Productions. Released for public educational use through U. S. Office of Education, 1948.

19 min., ed., color, 16 mm.

Summary: An animated cartoon explaining the fundamentals of electricity, including voltage, current, resistance, magnetic fields, induction, primary and secondary coils, series and parallel circuits.

Basic electronics (Motion picture) U. S. Dept. of the Air Force in cooperation with Minneapolis-Honeywell Regulator Co., 1948. Produced by Walt Disney Productions. Released for public educational use through U. S. Office of Education, 1948.

18 min., ed., color, 16 mm.

Summary: An animated cartoon explaining the meaning of atoms and electrons, vacuum tube, cathode, rectifier tube, amplifier tube, grid, and bridge circuit.

PHYSICS—Electricity

PHYSICS—Electricity

Carbon arc projection (Motion picture) National Carbon Co., 1918. Made by John Sutherland.

15 min., ed., color, 16 mm.

Technical notes: Demonstrates the optics of motion picture projection and the carbon arc's unique position in the broad science of light, light, and color. Shows what the carbon arc is and how it operates, and explains why the carbon arc is suited for motion picture projection and production.

— Another issue. 35 mm.

Cells and electric currents (Motion picture) Edited Pictures

System, 1938.

10 min., ed., b&w, 16 mm.

Summary: Nature of fields of force about current-carrying wires; nature and theory of voltaic and electro-magnetic induction coils and electric motors.

Current flashes (Motion picture) Jam Handy Organization,

1938.

11 min., ed., b&w, 16 mm.

Summary: Shows the various uses of and necessity for electricity in everyday life, with particular emphasis on the generator and electrical systems of the automobile.

Direct current controllers (Motion picture) U. S. Office of

Education, 1945. Produced by Culvin Co.

15 min., ed., b&w, 16 mm. (Electrical work series. Motor control, no. 3)

Order no. OE-353.

With instructor's manual. Supplementary filmstrip of same title also available. Shows about motors and direct current controllers in operation, and by animation, a direct current rheostat controller connected to a lamp motor.

Electricity (Motion picture) John F. Criswell. Released by

Gateway Productions, 1951.

9 min., ed., b&w, 16 mm. (The primary science series)

Summary: The operation of an electric train is used to introduce the field of electricity. Shows how power is generated and transmitted, and some of its common uses. Explains, by home-made experiments, the principles of turbines, generators, motors, closed and open circuits, and electrical machines.

Electrodynamics (Motion picture) Erpi Picture Consultants

(later name Encyclopedia Britannica Films) 1938.

11 min., ed., b&w, 16 mm.

With film guide. **Summary:** Reveals that moving electric charges create a magnetic field and that moving magnets create an electric current. Explains and illustrates a short circuit caused by faulty insulation. Reveals Galvani's discovery of electric currents, magnetic properties of a current-carrying wire and of an electric coil. Describes Lavoisier's experiment, re-creation, and electromagnetic induction as it functions in generators and transformers. Includes animation. For high school, college, and adult groups.

Electrolysis (Motion picture) Loew's International Corp.

Released by McGraw-Hill Book Co., 1949.

10 min., ed., b&w, 16 mm. (Physics demonstrations)

Summary: Demonstrates the conduction of electricity through a liquid.

Electromagnets (Motion picture) Young America Films,

1939.

11 min., ed., b&w, 16 mm.

With teacher's guide. **Summary:** Explains the principle of electromagnetism, and shows how the electromagnet is used in doorbells, telephones, telegraph sets, and electric motors. For elementary grades.

The electron: an introduction (Motion picture) U. S. Office

of Education, 1944. Produced by Loucks and Norling

Studios. 10 min., ed., b&w, 16 mm. (Engineering series. Electronics, no. 1)

Order no. OE-175.

With instructor's manual. Supplementary filmstrip of same title also available. **Summary:** Nature of electron; electron flow in solid conductors; electrostatic force; types and control of electron flow; electron flow and magnetic fields; and induced electron flow.

— Another issue. 35 mm.

Electronics at work (Motion picture) Westinghouse Electric

Corporation, 1946.

20 min., ed., b&w, 16 mm.

— Another issue. 35 mm.

Summary: Electronic devices in use in home, hospital; radio, x-ray equipment, dishwashers, superheaters, bactericidal lamps. In industry: in manufacture of aluminum and magnesium.

Electrons (Motion picture) Erpi Picture Consultants (later

name Encyclopedia Britannica Films) 1937.

11 min., ed., b&w, 16 mm.

With film guide. **Summary:** Through animated drawings and photography explains the hypothesis that electricity consists of unit elementary charges. Demonstrates the conduction of electricity through solutions, gases, and vacuum; Faraday's laws; movement of charges in vacuum tubes; operation of photoelectric cells; and reproduction of sound on film. For high school and college groups.

The electroscope (Motion picture) Loew's International

Corp. Released by McGraw-Hill Book Co., 1949.

10 min., ed., b&w, 16 mm. (Physics demonstrations)

Summary: Demonstrates the detection of electric charges.

Elements of electrical circuits (Motion picture) Encyclo-

pædia Britannica Films, 1943.

11 min., ed., b&w, 16 mm.

With teacher's guide. **Summary:** Demonstrates the concept that electric current is a flow of electrons controlled by circuits. Describes home electrical circuits and illustrates a short circuit caused by faulty insulation. Reveals functions of conductors and insulators, and measurement of electric flow by application of Ohm's law. Explains Ohm's law in terms of resistance, current, and electromotive force. For junior and senior high school, and adult groups.

Elements of electricity as applied to ignition systems (Mo-

tion picture) U. S. Army Air Forces, 1941. Released for

public educational use through U. S. Office of Education,

1943.

20 min., ed., b&w, 16 mm. (Aircraft engine series)

Order no. TF 1-120.

Summary: Explains the application of basic principles of electricity to the ignition system of an aircraft engine. Covers electric current, voltage, polarity of magnets, magnetic fields, and electro-magnetic induction.

The flow of electricity (Motion picture) Young America

Films, 1946.

10 min., ed., b&w, 16 mm.

With teacher's guide. **Summary:** Two children learn about the factors which affect the

flow of electricity through a simple electrical circuit. Introduces the electron theory, and shows the application of a simple circuit in a home situation.

Home electrical appliances (Motion picture) Encyclopedia

Britannica Films, 1944.

11 min., ed., b&w, 16 mm.

With teacher's guide. **Summary:** Demonstrates basic principles underlying the operation and maintenance of electrical home appliances. Traces wiring circuits of the average home. Illustrates principles of heating, lighting, and power appliances by explaining the operations of an electric iron, incandescent and fluorescent bulbs, and a vacuum cleaner motor. Concludes by demonstrating the working principles of the electric refrigerator.

Introduction to electricity (Motion picture) Coronet, 1948.

11 min., ed., color, 16 mm.

With teacher's guide. **Summary:** Through the interests of two students, static and current electricity, showing how the natural repulsion of electrons makes electricity with conductors and with magnetic lines of force.

— Another issue. b&w.

Learning about electric current (Motion picture) Encyclo-

pædia Britannica Films, 1953.

8 min., ed., b&w, 16 mm.

An Encyclopedia Britannica Junior film.

With film guide. **Summary:** Through experiments and demonstrations pupils to the

intermediate grade learn how electric current passes through an electric circuit, how it flows through conductors but not through insulating materials, and how it produces heat, light, and motion. Explains the difference between open and closed circuits.

The light in your life (Motion picture) The General Electric

Company, 1949.

20 min., ed., color, 16 mm.

Summary: Importance of artificial lighting in modern life. Various kinds of lamp bulbs used in homes, schools, factories, stores, under water, under ground. General Electric Laboratory and Lighting Institute, West Park, Cleveland.

Making electricity (Motion picture) Encyclopedia Britan-

ica Films, 1949.

11 min., ed., b&w, 16 mm.

Summary: Demonstrates how electricity is made by moving a coil of wire through the field of a magnet. Explains how a small, hand-powered generator is constructed and how it operates; illustrates how the same principle applies in generating electricity at a large hydro-electric plant; and reveals how electricity is carried over power lines to the consumer. For primary and middle grades.

Measurement of electricity (Motion picture) Coronet In-

structional Films, 1949.

11 min., ed., color, 16 mm.

Kodachrome.

With teacher's guide. **Summary:** In a dream sequence the four scientists, whose names

have been adopted for the basic units of electrical measure, explain the volt, ampere, ohm, and watt.

— Another issue. b&w.

Ohm's law (Motion picture) Coronet Instructional Films,

1953.

7 min., ed., color, 16 mm.

With study guide. **Summary:** Explains the principles of Ohm's law revealing the

effect of voltage and resistance on the flow of current. Defines the technical terms used in the law, demonstrates the practical applications of the law, and discusses its importance as a basic principle of physical science.

— Another issue. b&w.

Power unlimited (Motion picture) Handel Film Corp., 1955.

10 min., ed., b&w, 16 mm. (The magic of the atom, no. 14)

Produced with the technical assistance of the U. S. Atomic Energy

Commission and the Atomic Energy Project at U. C. L. A.

Summary: Explains that the illumination of power generated by the atom is becoming a reality. Describes how electricity is produced by atomic energy and includes scenes of the experimental breeder reactor in Idaho, the first atomic furnace to create usable electricity.

Primary cell (Motion picture) Encyclopedia Britannica

Films, 1944.

11 min., ed., b&w, 16 mm.

With teacher's guide. **Summary:** Explains dry cell operation in terms of electron action.

Through animated drawings and natural photography demonstrates formation of an electric current, electron flow, action of electrodes, polarization, and function of the depolarizer. Reveals operating characteristics and uses of a single cell and of cells connected as a battery in series and in parallel.

Principles of electricity (Motion picture) General Electric

Co., 1945. Made by Raphael G. Wolf Studios.

20 min., ed., color, 16 mm.

Summary: Breaks down the structure of matter into atoms and shows the action of electrons within an atom. Explains the units of pressure, electric current, and resistance (the volt, ampere, and ohm) as the principles involved in the flow of electricity. Discusses the nature of magnetism and magnetic fields. Shows how magnetic fields function in the generation and application of electricity. Includes animation.

PHYSICS—Electricity

Series and parallel circuits (*Motion picture*) Encyclopedia Britannica Films, 1944.
11 min., ed., b&w, 16 mm.

With study guide.
Summary: Clarifies the relationships between resistance, current, and electromotive force in series circuits and in parallel circuits, and demonstrates the advantages and disadvantages of both types of circuits. Describes a simple series-parallel combination and offers examples. For junior and senior high schools.

Sources of electricity (*Motion picture*) Edited Pictures System, 1938.
10 min., ed., b&w, 16 mm.

Summary: Various ways in which electric phenomena may be produced: by magnetic induction, friction or chemical action; similarity of all electric currents; nature of electric currents and field of force.

The story of electricity (*Motion picture*) Knowledge Builders, 1940.
12 min., ed., b&w, 16 mm.

With guide and manual.
Summary: A documentary story, dealing with persons and events leading up to the present-day development of electricity. Describes the early discovery of magnetism, showing how this gradually led to various other manifestations and produced the force known today as electricity. Touches on such important events as Edison's discovery of the incandescent lamp.

Vacuum tubes (*Motion picture*) Encyclopedia Britannica Films, 1945.
11 min., ed., b&w, 16 mm.

Summary: Explains by animated drawing, the operation of a radio vacuum tube in terms of the filament, plate, and grid circuits. Illustrates three functions of the vacuum tube in the radio: how it serves as an amplifier to operate the loudspeaker, as a rectifier in detection, and as an oscillator to generate the carrier wave.

Vacuum tubes: Electron theory and the diode tube (*Motion picture*) U. S. Army Air Forces, 1945. Released for public educational use through U. S. Office of Education, 1944.
16 min., ed., b&w, 16 mm.

Order no. TP 1-47.
Summary: Explains electron behavior in matter, electron sources in vacuum tubes, symbols of tubes, functioning of tube in a circuit, and effect of plate voltage changes, space charge, and diode and diode as rectifier.

What is electricity? (*Motion picture*) Encyclopedia Britannica Films, 1933.
11 min., ed., b&w, 16 mm.

An adaptation of the film made by Guild Holdings for the Educational Film Library of British Electrical Development Association.
With study guide.
Summary: Presents electrostatic experiments of Dr. P. P. Benjamin Franklin, and Volta. Provides a visual account of electrostatics by means of the experiments of Cavendish and Faraday which led to the development of modern and present-day. Discusses the nature of electricity and its correlation with electric theory. Includes a series of diagrams which explain the organization of atoms and the movement of electrons which results in the flow of electricity in metals.

What is electricity? (*Motion picture*) Westinghouse Electric Corp., 1948.
20 min., ed., b&w, 16 mm.

Summary: Tells the story of electricity, what it is, and how man learned to produce it. Demonstrates, in animated sequences, the electric theory, laws of magnetism, and principles of the generation of electric current. Shows real and practical applications of electricity in transportation, communication, medicine, and industry.
—Another issue. 35 mm.

PHYSICS—Meteorology

The atom and the weather (*Motion picture*) Handol Film Corp., 1954.
13 min., ed., b&w, 16 mm. (The magic of the atom, no. 23)

Clouds (*Motion picture*) Almanac Films, Inc., 1952.
10 min., ed., b&w, 16 mm.

Summary: Clouds as guide for weather. What clouds do for man; how formed by shifting air currents.

Clouds (*Motion picture*) U. S. Weather Bureau, 1939.
11 min., ed., b&w, 16 mm.

Short version, for school use, released under title: Clouds and weather.
Summary: Shows various types of clouds; explains how high and low pressure areas move across the country and how to forecast weather from the study of clouds.
—Another issue. 35 mm.

Clouds above (*Motion picture*) Bailey Films, 1951.
9 min., ed., color, 16 mm.

With study guide.
Summary: Explains the physical nature of clouds; shows the different types of clouds, demonstrates how clouds are formed and how they behave. For grades 5-8.
—Another issue. b&w.

Flood weather (*Motion picture*) U. S. Weather Bureau, 1937.
31 min., ed., b&w, 16 mm.

Summary: Explains weather forecasting for river navigation and flood protection. Includes scenes of the Potomac flood, 1936, and the Ohio flood, 1937.
—Another issue. 35 mm.

How weather is forecast (*Motion picture*) Coronet Instructional Films, 1953.
11 min., ed., color, 16 mm.

Photographed in cooperation with the United States Weather Bureau.
With study guide.
Summary: Shows the operation of a weather observation station and a weather forecasting station, describes the instruments used in weather forecasting and their functions, explains the importance of forecasting to various occupational groups and to the inhabitants of flood areas. Animated sequences are used to show the charting of a weather map and to explain the symbols used.
—Another issue. b&w.

Hurricane circuit (*Motion picture*) U. S. Dept. of State, 1949. Produced by Knickerbocker Productions. Released for educational use in the United States through U. S. Office of Education, 1950.
25 min., ed., b&w, 16 mm.

Summary: Traces the path of a hurricane through the Caribbean and the Gulf of Mexico, and explains the work of the U. S. Weather Bureau in predicting the course of the hurricane and issuing forecasts and emergency storm warnings. Shows in animation the nature of hurricanes.
—Another issue. 35 mm.

Modern weather: Theory and structure of storms: Development and characteristics of atmospheric waves (*Motion picture*) U. S. Army Air Forces, 1940. Released for public educational use through U. S. Office of Education, 1943.
15 min., ed., b&w, 16 mm.

Order no. TP 1-124.
Summary: Describes the restoration of equilibrium in the atmosphere by cutbacks and surges from the polar front, the development of warm and cold fronts and occluded fronts, and the progress of a typical atmospheric wave.

Modern weather: Theory and structure of storms: Primary circulation (*Motion picture*) U. S. Army Air Forces, 1940. Released for public educational use through U. S. Office of Education, 1943.
10 min., ed., b&w, 16 mm.

Order no. TP 1-123.
Summary: Explains by animation and maps the principle of the air currents created by tropical and polar regions and the deflection of these winds in terms of the earth's turning on its axis. Discusses prevailing westerlies, trade winds, and polar fronts.
25 min., ed., b&w, 16 mm.

Modern weather: Theory and structure of storms: Weather in various parts of an occluded wave (*Motion picture*) U. S. Army Air Forces, 1943. Released for public educational use through U. S. Civil Aeronautics Administration, 1948.
25 min., ed., b&w, 16 mm.

Order no. TP 1-125.
Summary: Describes the characteristics of warm, cold, and occluded fronts; shows the types of clouds associated with each type of front; tells how an occluded front is produced; and explains how to fly through an occluded front.

Nature's plan (*Motion picture*) Conservation Foundation in association with the New York Zoological Society. Released by Encyclopedia Britannica Films, 1953.
14 min., ed., color, 16 mm. (The living water series, no. 1)

Summary: Describes the natural water cycle by which water from the ocean is drawn into the air by evaporation, formed into clouds, condensed to water, delivered to the earth, and returned to the ocean. Shows that nature provides waterlands where water is stored and distributed to the earth by streams and rivers.

The occluded fronts (*Motion picture*) U. S. Navy Dept., 1944. Made by Walt Disney Productions. Released for public educational use through U. S. Office of Education, 1948.
25 min., ed., color, 16 mm. (Aerology)

Order no. M3 114-2.
Summary: Shows the development and movement of cyclones and the latter stage which are the warm and cold fronts. Demonstrates on a weather map the action of cold and warm front occlusions and points out the weather problems in flight operation.

PHYSICS—Meteorology

Our weather (*Motion picture*) Encyclopedia Britannica Films, 1953.
12 min., ed., b&w, 16 mm.

Produced with the cooperation of the U. S. Weather Bureau.
With study guide.
Summary: Animations and microphotography are used in explaining why weather changes, how meteorologists predict changes, and how weather affects everyday activities. Discusses the air mass theory and the formation of dew, frost, and snow. Includes visits to a weather observation station where the purpose of various instruments is explained, and to a forecasting office where weather maps are plotted from data received from observation stations.

The search: University of Chicago (Weather research) (*Motion picture*) Young America Films, Inc., 1955.
27 1/2 min., ed., b&w, 16 mm.

A story of a storm (*Motion picture*) Coronet Instructional Films, 1950.
11 min., ed., color, 16 mm.

Kodachrome.
With teacher's guide.
Summary: Shows the various conditions which cause a rainstorm to develop. Covers the names of clouds, knowledge of pressure areas, fronts, and meteorological information. Traces the results of a single storm.
—Another issue. b&w.

The weather (*Motion picture*) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1941.
11 min., ed., b&w, 16 mm.

Summary: A study of the weather and techniques for predicting and measuring its changes. Explains meteorological instruments, cycle of solar radiation, and circulation of the atmosphere. Traces a wave cyclone on the polar front across the Middle States and relates it to observable phenomena such as cloud type, wind direction and velocity, temperature, barometric pressure, and precipitation.

Weather and radar (*Motion picture*) U. S. Dept. of the Navy, 1953. Released for public educational use through U. S. Office of Education, 1954.
17 min., ed., b&w, 16 mm. (Aerology)

Order no. M3 115-1.
Summary: Illustrates some of the operational values to be gained by using radar in locating and identifying weather disturbances, including cold fronts, warm fronts, thunderstorms, typhoons, and hurricanes. Characteristic echo patterns on the PPI (Planimetric Position Indicator) scope are shown.
—Another issue. 35 mm.

Weather wizards (*Motion picture*) Metro-Goldwyn-Mayer, 1938. Released for educational purposes by Teaching Film Custodians, 1940.
9 min., ed., b&w, 16 mm. (Peter Smith spectacle series)

Summary: Demonstrates how weather forecasting aids agriculture. Shows the work of a weather bureau and its role in economic warfare.

What makes rain (*Motion picture*) Young America Films, 1947.
10 min., ed., b&w, 16 mm.

With teacher's guide.
Summary: Explains, through a letter which the weather man writes to a young boy, evaporation and condensation as they apply to the water cycle. Includes animated drawings. For elementary grades.

PHYSICS—Nuclear Physics

Winds and their causes (Motion picture) Coronet Instructional Films, 1948.
11 min., ed., color, 16 mm.

With teacher's guide.
Summary: When his gasoline-powered model airplane crashes over a new field, a young boy becomes interested in winds and obtains information from personal observation, from books, and from an aviator. Explains thermals, convection cells, thunderstorms, the great winds of the earth, on- and off-shore breezes, and the aurorae and weather.

— Another issue. b&w.

PHYSICS—Nuclear Physics

A is for atom (Motion picture) General Electric Co., 1953.
Made by John Sutherland Productions.
15 min., ed., color, 16 mm.

With teacher's guide.
Summary: An animated cartoon. Explains the nature of a single atom and its nucleus, the way in which atoms differ from one another, and the significance of the terms radioactive and stable. Describes the experiments which led to nuclear fission, the separation of mass and energy, the first atomic bomb, and the mass production of the pile and the peaceful uses of atomic energy in agriculture, industry, transportation, and medicine.

The atom and agriculture (Motion picture) Encyclopedia Britannica Films, 1953.
12 min., ed., b&w, 16 mm.

With teacher's guide.
Summary: Describes the legitimate areas in which radioactivity can be expected to produce practical results for agriculture. Tells the story of the use of radioactive tracers with phosphate fertilizers and explains the effect of the fertilizers on a variety of crop grown under a variety of conditions. Depicts experiments with plants, soils, and animals in which radiolabels and radiographs are playing an important part.

The atom in industry (Motion picture) Handel Film Corp., 1954.

13 min., ed., b&w, 16 mm. (The magic of the atom, no. 3)
Produced with the technical assistance of the U. S. Atomic Energy Commission and the Atomic Energy Project at U. C. L. A.
Summary: Describes industrial applications of the atom. A model of an atomic power plant is used to illustrate the conversion of heat from atomic energy into electricity. Explains how experiments conducted at Knolls Laboratory have helped in the study of vital heat-transfer problems, how atomic techniques are used to find out how an atomic source is used to make X-rays of giant castings to detect flaws.

Atom smashers (Motion picture) Encyclopedia Britannica Films, 1953.

12 min., ed., b&w, 16 mm.
Produced in collaboration with the Division of the Physical Sciences of the University of Chicago, which includes the Institute of Nuclear Studies.
With teacher's guide.
Summary: Describes how physical scientists are developing machines and techniques for the prediction and use of atomic energy in many beneficial fields. Calls attention to the importance of accelerators—particularly the cyclotrons—and their contributions as tools of nuclear research. Illustrates how the products of atom smashing are identified, and demonstrates protective measures taken against the dangers inherent in this research.

Atom smashers (Motion picture) Handel Film Corp., 1954.

13 min., ed., b&w, 16 mm. (The magic of the atom, no. 1)
Produced with the technical assistance of the U. S. Atomic Energy Commission and the Atomic Energy Project at U. C. L. A.
Summary: Describes particle accelerators, which are nuclear research tools known as atom smashers, explaining the principles of their construction and their use. Shows how atomic projectiles smash atomic nuclei. Compares Dr. Ernest Lawrence's first four-inch cyclotron with the giant levatron. Shows views of various particle accelerators, including the cosmotron, and includes automatic camera shots which show trails left by smashed atoms.

The atomic detective (Motion picture) Handel Film Corp., 1954.

15 min., ed., b&w, 16 mm. (The magic of the atom, no. 2)

Atomic energy (Motion picture) Encyclopedia Britannica Films, 1947.

11 min., ed., b&w, 16 mm. (Chemistry)
With guide.
Summary: Explains by animated drawings the concepts basic to an understanding of atomic energy: identifies parts and structure of atoms; defines and contrasts electrical or chemical energy and nuclear energy; explains the three known forms of atomic energy release: natural radioactivity, nuclear synthesis, and nuclear fission; and illustrates a relationship between atomic energy from the sun and chemical energy stored and released in photosynthesis and combustion. For high school, college, and adult groups.

Atomic furnaces (Motion picture) Handel Film Corp., 1954.

13 min., ed., b&w, 16 mm. (The magic of the atom, no. 2)
Produced with the technical assistance of the U. S. Atomic Energy Commission and the Atomic Energy Project at U. C. L. A.
Summary: Describes nuclear reactors, explaining the principles of their use, and shows several of them in action at Brookhaven, Oak Ridge, and Los Alamos. Shows the first atomic furnace at Chicago, including conveyor views of a typical reactor, and presents a step-by-step comparison showing the transmutation of materials in the Atomic Energy Commission's water boiler reactor at Los Alamos.

Atomic power (Motion picture) March of Time, 1947. Released by McGraw-Hill Book Co.

10 min., ed., b&w, 16 mm.
A Forum film.
Summary: Depicts the historical background of the development of atomic power from 1905 when Einstein defined the relation between mass and energy, through the work of Fermi, Enrich, Oppenheimer, and others recapturing the secret which they played during the war. Discusses the social and industrial implications of atomic energy.

Atomic power for peace (Motion picture) U. S. Information Agency, 1953.

10 min., ed., b&w, 16 mm.
Summary: Highlights of President Dwight D. Eisenhower's speech before the UN, of December 8, 1953, in which he made his proposal for international cooperation in the peace-time uses of atomic energy. Background of President's statements.

Atomic radiation (Motion picture) Encyclopedia Britannica Films, 1953.

12 min., ed., b&w, 16 mm.
Produced in collaboration with the Division of the Physical Sciences of the University of Chicago, which includes the Institute of Nuclear Studies.
With teacher's guide.
Summary: Explains the fundamentals of atomic radiation. Describes how the French physicist Henri Becquerel discovered the property of radioactivity and how the Curies investigated the three kinds of radiation emitted by radium. Explains the range of alpha, beta, gamma, and neutron particles in radioactive research and shows how natural forms of radiation have been reproduced in the laboratory.

Atomic research: areas and development (Motion picture) Coronet Instructional Films, 1953.

14 min., ed., color, 16 mm.
Summary: Explains that atomic research is contributing to the progress of civilization by extending the applications of nuclear fission and expanding the utilization of its by-products.

— Another issue. b&w.

Atoms for peace. Part 1: Introducing the atom (Motion picture) U. S. Information Agency, 1955. Made by Warner News, Inc.

Released for public educational use in the United States through U. S. Office of Education, 1955.
21 min., ed., b&w, 16 mm.

Summary: Explains the nature of the atom and of atomic energy; demonstrates through animation the make-up, function, formation, and control of chain reaction; and indicates potential uses of atomic material in medicine, agriculture, and industry.

— Another issue. 35 mm.

Atoms for peace. Part 3: Agriculture, industry, and power (Motion picture) U. S. Information Agency, 1955. Made by Warner News, Inc.

Released for public educational use in the United States through U. S. Office of Education, 1955.
21 min., ed., b&w, 16 mm.

Summary: Describes research in the uses of radioactive materials in agricultural and industrial production.
— Another issue. 35 mm.

The master slaver (Motion picture) Handel Film Corp., 1954.

13 min., ed., b&w, 16 mm. (The magic of the atom, 12)

The nuclear reactor (Motion picture) McGraw-Hill Book Co., 1954. Made by Audio Productions.

9 min., ed., b&w, 16 mm. (Secondary nuclear series)
Summary: Discusses nuclear stability and nuclear induced fission. Explains neutron emission, self-sustaining chain reaction, and the role of the moderator. Illustrates the application of these ideas in the pile and shows the production of plutonium and uranium elements. Animated drawings.

PHYSICS—Nuclear Physics

Operation Ivy (Motion picture) U. S. Dept. of the Air Force, 1951. Released for public use by U. S. Federal Civil Defense Administration.

28 min., ed., color, 16 mm.
Summary: A documentary record of a thermonuclear test at the Atomic Energy Commission's Pacific proving grounds in 1952. Includes introductory remarks by President Dwight D. Eisenhower and a closing statement by FCI Administrator Val Peterson.

The petrified river: The story of uranium (Motion picture) U. S. Bureau of Mines, 1955.

28 min., ed., color, 16 mm.

Order no. FPM 51454A.

Summary: Depicts the geologic theory of how uranium was deposited in beds of prehistoric rivers of the Colorado plateau. Shows present-day prospecting, exploration, mining, and milling of uranium ore; the atomic reactor at Oak Ridge, Tenn.; and the peacetime uses of atomic energy.

Radiation—silent servant of mankind (Motion picture) Handel Film Corp., 1955.

18 min., ed., b&w, 16 mm. (The magic of the atom, no. 2)

Produced with the technical assistance of the U. S. Atomic Energy Commission and the Atomic Energy Project at U. C. L. A.
Summary: Depicts four extensive uses of the use of controlled radiation: the use of radioactive tracers in industry, which helps plants to facilitate research that may lead to better strains of food crops; an atom which is used in the therapy of deep-seated tumors; radioactive iodine which is used on a patient at the Brookhaven Center Research Hospital as a treatment for cancer of the thyroid; and the medical research reactor at U. C. L. A., which may be effective in treating brain tumors.

Radiolopes (Motion picture) U. S. Department of Defense, Armed Forces Institute of Pathology, 1952.

Part I: Fundamentals of Radioactivity.

48 min., ed., b&w, 16 mm.

Order no. FPM 51454A.

Summary: Part I: Fundamentals of Radioactivity. An introductory film dealing with theoretical and practical application of radioisotopes; basic concepts in field of nuclear physics pertinent to understanding of radiolopes.

Part II: Properties of Radiation.

48 min., ed., b&w, 16 mm.

Order no. FPM 51455B.

Summary: Part II: Properties of Radiation. Characteristics and properties of primary and secondary radiations in terms of their ionizing effect. Concepts concerning effect of matter on radiation; terminology; data on preclinical to practical measurement.

Part III: Practical Procedures of Measurement.

48 min., ed., b&w, 16 mm.

Order no. FPM 51456C.

Summary: Part III: Practical Procedures of Measurement. Purpose of measurement; electronics; ionization chamber, proportional counter, Geiger-Müller counter. Concepts of threshold values and plateau; simple exposition of counting statistics; standard deviation.

Part IV: Practice of Radiological Safety.

33 min., ed., b&w, 16 mm.

Order no. FPM 51457D.

Summary: Part IV: Practice of Radiological Safety. Methods of handling shipments of radioactive material; preparation of dosage for therapy; manufacture of synthetic compounds. Protective clothing and metering equipment. Principles of controlling exposure and decontamination process.

Part V: Agricultural Research.

40 min., ed., b&w, 16 mm.

Order no. FPM 51478E.

PHYSICS—Nuclear Physics

Radiotopes (Motion picture) U. S. Department of Defense, Armed Forces Institute of Pathology, 1952.

Summary: Part XII: Agricultural Research. Use of radiotopes in agricultural research. Utilization of chemicals by plants and animals traced; exact amount needed determined by means of tracer technique through radioactive chemicals.

Part XIII: General Science.

46 min., ed., b&w, 16 mm.

Order no. PMP 5147C.

Summary: General Science. Adaptability of radiotopes as research tool in all branches of general science. Fundamental characteristics of tracer investigation shown by experiment of self diffusion of metals. Seven experiments, solved through use of tracers, increase progressively in complexity. Comments on particular techniques and procedures.

The radiotopes: Methodology (Motion picture) U. S. Dept. of the Army, 1951. Released for public educational use through U. S. Office of Education, 1955.

30 min., ed., b&w, 16 mm. (The radiotopes series, no. 4)
Order no. PMP 5145-D
Summary: Illustrates criteria of tracer methodology for radiochemical purity; explains the importance, in designing a tracer experiment, of economy of time and materials and of accuracy; and portrays a research team planning a typical tracer experiment (labeling of the barium bean plant) in which appropriate criteria are observed.

— Another issue. 35 min.

Report on the atom (Motion picture) March of Time, 1950. Released by McGraw-Hill Book Co.

20 min., ed., b&w, 16 mm.

A Forum film.

Summary: A report on the atomic energy program of the United States, revealing the progress made in developing war time weapons and peacetime uses of atomic energy in industry, agriculture, medicine, and biology.

Tagging the atom (Motion picture) Handel Film Corp., 1954.

13 min., ed., b&w, 16 mm. (The magic of the atom, no. 7)

Produced with the technical assistance of the U. S. Atomic Energy Commission and the Atomic Energy Project at U. C. L. A.
Summary: Describes the use of the atomic tracer as a scientific research tool. Includes details of the manufacture of these radioactive isotopes, their use in tagging, the scientific nature of the process, and describes briefly other radioactive series. Animated drawings.

U 238 radioactive series (Motion picture) McGraw-Hill Book Co., 1954. Made by Audio Productions.

9 min., ed., b&w, 16 mm. (Elementary nuclear series)

Produced in collaboration with the United States Committee of the American Association of Physics Teachers.
Summary: Traces the various stages in the decay of U 238 to stable lead. Discusses alpha and beta emitting, the scientific nature of the process, and describes briefly other radioactive series. Animated drawings.

The Yukawa story (Motion picture) U. S. Information Agency, 1955. Made by Joseph Krumpolt. Released for public educational use in the United States through U. S. Office of Education, 1955.

41 min., ed., b&w, 16 mm.
Summary: Portrays the life of the atomic physicist and Nobel prize winner in atomic physics, Dr. Hideki Yukawa. The scientist's son, Tatsuzo Yukawa, narrates the story of the life of his father and mother and explains the philosophies they represent. As he interprets their lives, Tatsuzo tells the complementary blending of modern day science and the cultural heritage of the past.

— Another issue. 35 min.

ZOOLOGY

Alive from the deep (Motion picture) Kayfetz Productions; made 1952. Released by Sterling Films.

11 min., ed., color, 16 mm.

Summary: How marine exhibits for the Oceanarium at Monticello, Florida, are brought back alive. Shows giant turtles, sharks, and porpoises.

— Another issue. b&w.

The American horse (Motion picture) University of California, University Extension. Released by Educational Film Sales Dept., University Extension, University of California at Los Angeles, 1953.

27 min., ed., color, 16 mm. (The history of the horse in North America, no. 2)

With teacher's study guide.
Summary: Shows breeds of horses which have been developed in America, including the Morgan, Standardbred, quarter horse, and the Tennessee walking horse. Shows also the Appaloosa, California palomino, southwestern plains, the roan, hunter, polo pony, hackney, harness, draft animal, cavalry mount, saddle horse, rodeo broncho, and the parade horse.

— Another issue. b&w.

Andy's animal alphabet (Motion picture) New York Zoological Society. Released by McGraw-Hill Book Co., 1950.

10 min., ed., color, 16 mm.

Summary: Shows Andy, the Zoo's little orangutan, on a guided tour through the Bronx Zoo, visiting a series of familiar and strange animals whose names begin with different letters of the alphabet. For grades 3-5.

Animal friends (Motion picture) Paul Barnford, Made and released by Film Associates of California, 1955.

10 min., ed., color, 16 mm.

With teacher's study guide.
Summary: Tells the story of Kitten, a baby cat, and Ship, a big white dog. Kitten and Ship are good friends, playing together, resting together, and eating together. Although Kitten wanders off to have adventures with some other animals, she returns to her best friend, Ship, for primary grades.

— Another issue. b&w.

Animal habitats (Motion picture) Film Associates of California, 1955.

10 min., ed., b&w, 16 mm.

— Another issue. color.

Animal homes (Motion picture) Churchill-Waxler Film Productions, 1954.

11 min., ed., color, 16 mm.

With teacher's guide.
Summary: Depicts a variety of animals making their homes and living in them. Shows that an animal uses its home for safety, shelter, food storage, and the raising of its young.

— Another issue. b&w.

Animal homes (Motion picture) Encyclopedia Britannica Films, 1955.

11 min., ed., b&w, 16 mm.

With film guide.

Summary: Explains that different animals choose different places in which to build their homes. Shows representative examples of animal homes in trees, in the earth, and in water. Includes exterior and interior views of the homes of trap-door spiders, skunks, raccoons, herons, and others.

Animal life (Motion picture) Encyclopedia Britannica Films, Inc., 1954.

11 min., ed., b&w, 16 mm.

Summary: Animals classified from lowest invertebrate to highest vertebrate; their common functions (food intake, digestion, waste disposal, reproduction, growth, irritability, locomotion); various animals depicted in native habitats; their personalities. How nervous system and brain influence action in higher animals.

Animal life at low tide (Motion picture) Pat Dowling Pictures, 1955.

11 min., ed., color, 16 mm.

Summary: Studies starfish, sea anemones, hermit crabs, snails, and other animal inhabitants of a tide-flat. Describes each animal's natural means of protection and method of getting food.

Animal life in the antarctic (Motion picture) Rutgers University. Released by State University of Iowa.

27 min., ed., monochrome, 16 mm.

Summary: Animals of south polar regions: Weddell seals at breeding grounds near Little America; their young from time of birth, through nursing period, to first swim and beginning of independent life. Southern forms of animal life, microorganisms from polar mountains seen through microscope at Little America Laboratory. Crustaceans from Bay of Whales. Emperor penguins.

Animals and their foods (Motion picture) Coronet Instructional Films, 1955.

11 min., ed., color, 16 mm.

With study guide.
Summary: Divides domestic and wild animals into three groups—those that eat meat, those that eat plants, and those that eat both meat and plants. Explains that different animals are suited to eating different kinds of food, that wild animals must search for their food, and that all animals need food for their existence and growth.

— Another issue. b&w.

Animals and their homes (Motion picture) Coronet Instructional Films, 1955.

11 min., ed., color, 16 mm.

With study guide.
Summary: Shows different animals building various types of homes, and explains that most animals build homes of protective places for raising their young. Shows how environment affects the location and building materials selected. Includes views of the homes of ducks, geese, beavers, chickadees, rabbits, horned larks, robins, eagles, squirrels, pygmy, prairie dogs, wasps, and cliff swallows.

— Another issue. b&w.

ZOOLOGY

Animals growing up (Motion picture) Encyclopedia Britannica Films, 1950.

11 min., ed., b&w, 16 mm. (Primary science)

With teacher's guide.

Summary: Shows stages in the growth and development of puppies, a newborn calf, and baby chicks during the first few weeks of life. Illustrates how mother animals care for their young. For primary and middle grades.

Animals in spring (Motion picture) Encyclopedia Britannica Films, 1954.

11 min., ed., color, 16 mm.

With film guide.

Summary: Presents the activities of a variety of animals in the spring. Includes scenes which show the turtle emerging from the bottom of the pond to the surface of the water, fish swimming to a shallow creek in spring, birds building nests, and the first moth emerging from the cocoon. Shows how different animals protect their young from enemies.

— Another issue. b&w.

Animals in summer (Motion picture) Encyclopedia Britannica Films, 1954.

10 min., ed., color, 16 mm.

With film guide.

Summary: Presents scenes of the more common animals of the woods during the summer months. Shows how the animals search for their food and eat it, how some animals store food for use in the winter, and how some animals shelter their young. Includes scenes of insects, frogs, snakes, squirrels, foxes, and bears.

— Another issue. b&w.

Animals in winter (Motion picture) Encyclopedia Britannica Films, 1950.

11 min., ed., 16 mm. (Animals and environment)

With teacher's guide.

Summary: Studies various wild animals as they prepare for and live through the winter season. Portrays a badger, woodchuck, chipmunk, cottontail, owl, rabbit, fox, porcupine, bobcat, and fox in natural settings. Shows that some animals prepare winter homes for themselves, that some store food, that some hibernate, that some change in appearance as winter comes, and that some live through winter in a different form. For primary and middle grades.

Ant city (Motion picture) Almanac Films, Inc., 1951.

10 min., ed., b&w, 16 mm.

Summary: Complete and complex society of ants; their architecture, social and economic perfection, ability to organize and control; habits, work and detailed activities.

Ants (Motion picture) Encyclopedia Britannica Films, 1948.

11 min., ed., b&w, 16 mm.

Summary: Depicts, by means of close-up photography, varied activities of four different types of ants—mound builders, black ants, household ants, and carpenter ants. Shows in detail the life cycle of feeding, mating, hatching, and preparations for swarming. Portrays an interesting battle between mound builder and wood ants.

ZOOLOGY

Aquarium wonderland (Motion picture) Pat Dowling Productions, 1955.

10 min., ed., color, 16 mm.

Summary: Explains the correct way to set up and care for a small aquarium. Uses microscopic photography and animation to describe the life processes of fish.

Arthropoda (Motion picture) Rutgers University, [Released through State University of Iowa].

30 min., silent, color, 16 mm.

Summary: Real I: Crustaceans from the Gulf of Mexico and coast of Maine. Colony of hermit crabs in action, followed by high magnifications of cirri. Several specimens shed later-gonites. Large individuals develop from deep water. Skeleton shrimp: protective bleeding of form and color with algal background, penicillate structures. Prawns and lobsters decapod, structure and activity. How hermit crabs protect themselves.

Real II: Crustaceans from the Gulf Coast of Florida. Crabs: Hermit crabs in their appropriated mollusk shells; surrounded by oysters, hermit crabs, hermit crabs, and hydroids. Concomitant with spines. Spider crabs, decorated with algae, hydroids, and sand grains. Ghost crabs; stone crabs.

Attracting birds in winter (Motion picture) International Film Bureau, 1952. Made by Crawley Films, Ottawa.

6 min., ed., color, 16 mm.

Summary: Shows various ways of attracting birds in winter. Outlines methods of feeding birds and illustrates various forms of bird shelters.

Australia's platypus (Motion picture) Australian Instructional Films. Made by Avondale Studios. Released in the U. S. by Library Films, 1952.

13 min., ed., b&w, 16 mm.

Summary: Traces the life cycle of the platypus, an egg-laying mammal, showing its nesting and hatching habits and other characteristics. Pictures the animal in its natural habitat and in captivity, and features scenes of the platypus swimming upstream, includes the "row" of the animal.

Baby animals (Motion picture) Young America Films, 1948.

10 min., ed., b&w, 16 mm.

With teacher's guide. Summary: Describes animals and their young. Introduces and explains such concepts as degree and nature of parental care, resemblance to parents, general growth patterns, variation in ability to care for selves, and the fact that some baby animals are hatched from eggs and others born from the body of the mother. For primary grades.

Balanced aquarium (Motion picture) Encyclopedia Britannica Films, 1955.

11 min., ed., color, 16 mm.

With film guide. Summary: Follows the step-by-step activities of two elementary school children who become interested in fish and study the problems involved in keeping tropical fish. They set up an aquarium, select the fish, and learn the importance of feeding the fish properly, dealing the aquarium, keeping the temperature constant, and maintaining the proper balance between plant and fish life. Life action, animated drawings, and underwater photography.

— Another issue. b&w.

Battle for survival (Motion picture) Allen and Allen Productions. Released by Bailey Films, 1940.

10 min., ed., b&w, 16 mm.

Summary: Close-up photography of animal life on the desert. A half-wild mother pig and her brood engage in a battle with a six-foot rattlesnake, in which the mother pig finally cuts the rattlesnake to pieces with her sharp hoofs.

Battle of the centuries (Motion picture) Educational Film Exchanges, 1952. Released for educational purposes by Teaching Film Custodians, 1950.

10 min., ed., b&w, 16 mm. (Battle for life series)

Summary: Pictures life in a colony of termites showing the division of labor among the termites. Portrays a life and death struggle in which the termites repulse an attack of invading ants. Includes photomicrographs.

Beach and sea animals (Motion picture) Electrical Research Products, 1951. Released by Encyclopedia Britannica Films.

10 min., ed., b&w, 16 mm.

With film guide. Summary: Examines the characteristics, habits, and importance of familiar invertebrate animals dwelling on or near the beach. By underwater close-up photography in their respective environments, reveals the starfish, sea urchin, crab, cuttlefish, octopus, lobster, crayfish, prawn, shrimp, snail, scallop, mussel, and sea cucumber. Illustrates interrelationships, methods of self-protection, and balance in nature. For elementary and high school grades and adult groups.

Beach masters (Motion picture) Van Beuren Corp., 1935. Made by Stacey & Horner Woodard.

10 min., ed., b&w, 16 mm. (Struggle to live series)

Summary: Follows the yearly migration of seals to rock shores of the Alut Islands in the Bering Sea, where they bring forth their young.

The bear and its relatives (Motion picture) Coronet, 1943.

10 min., ed., b&w, 16 mm.

With teacher's guide. Summary: Presents scientific and zoological facts about the raccoon, panda, kodak, or Alaskan brown bear, polar bear, grizzly bear, and the American black bear. For primary, intermediate, and junior high school grades.

The bear and the hunter (Motion picture) Svensk filmindustri, Stockholm. Released in the U. S. by Encyclopedia Britannica Films, 1950.

11 min., ed., b&w, 16 mm.

Previously released under the title Shadows on the snow. Swedish version released under the title Sluggare över snö.

With teacher's guide.

The beaver (Motion picture) J. A. Hoescher. Released by Encyclopedia Britannica Films, 1950.

10 min., ed., color, 16 mm.

With teacher's guide. Summary: Shows activities of the beaver in its natural environment. Illustrates ways in which the beaver's teeth, feet, and tail help him in swimming, cutting, felling trees, and repairing a broken dam. Reveals the unique construction of a beaver house, and stresses the importance of the animal as an agent of conservation and as a valuable fur bearer.

Beaver in Oklahoma (Motion picture) University of Oklahoma, 1953.

10 min., ed., b&w, 16 mm.

Summary: Beaver management, preservation, and growth.

Beetles (Motion picture) Electrical Research Products, 1931. Released by Encyclopedia Britannica Films.

10 min., ed., b&w, 16 mm.

Summary: Presents the life cycle of the tiger, Japanese, and ladybird beetle, and calls attention to economic aspects of the spread of harmful beetles. Traces the hatching of the larva from the egg, transformation into pupal stage, and final metamorphosis. Through animated maps depicts the spread of the Japanese beetle, and suggests methods of control.

Beneath our feet (Motion picture) Educational Film Exchanges, 1953. Released for educational purposes by Teaching Film Custodians, 1950.

9 min., ed., b&w, 16 mm. (Battle for life series)

Summary: Glimpses of the insect world as it exists in a typical grass plot. Shows ants, crickets, wolf spiders, trap-door spiders, centipedes, aphids, ladybird larvae, and bees.

Beware—snakes! (Motion picture) Australian Instructional Films. Made by Avondale Studios in collaboration with the Australian Museum, Sydney, and the Australian Reptile Club. Released in the U. S. by Library Films, 1952.

10 min., ed., b&w, 16 mm. (Wild life series, no. 9)

Also known as Beware of snakes. With study guide. Summary: Studies the life cycle of the snake, including scenes of the young, hibernation, awakening, and sloughing of skins. Explains how the structure of the skin influences the movement of snakes. Demonstrates how snakes are killed of their venom for antivenom. Shows various harmless and deadly snakes. Explains in detail, and emphasizes simple first aid for snakebite.

Billy and Nanny, the goat twins (Motion picture) Encyclopedia Britannica Films, 1953.

11 min., ed., b&w, 16 mm.

Second edition. First edition entitled Goats. Summary: Shows the characteristics of domesticated goats and the milking and feeding of goats on a farm. Shows the playful antics of two young goats. For primary and middle grades.

Biography of a fish (Motion picture) Argo Films. Released by Sterling Films, 1950.

9 min., ed., b&w, 16 mm.

Summary: The male stickleback builds his nest; courts the female; supervises egg laying; defends embryos from snails, sea anemones, and other enemies; keeps newly hatched fish in the nest until they have matured enough to shift for themselves; and in final fight eats by a pike.

Bird nesting time (Motion picture) Minneapolis-Moline Co., 1954.

10 min., ed., color, 16 mm.

Summary: The home life of thirteen North American birds, including the Baltimore oriole, red-eyed vireo, ruby-throated hummingbird, hairy crested flycatcher, black-capped chickadee, tree swallows, pigeon plover, killdeer, chipping sparrow, and towhee.

Birds are interesting (Motion picture) Paul A. Barnford. Released by Encyclopedia Britannica Films, 1950.

10 min., ed., color, 16 mm.

With teacher's guide. Summary: Presents some basic biological concepts concerning birds. Provides a systematic analysis of birds by classifying them under three categories—nesting and wading birds, birds of prey, and perching birds. Contrasts such features as bills, feet, and wings to characterize each type. Films depicted include hawk, owl, duck, pelican, catbird, and domestic chicken.

— Another issue. b&w.

Birds in winter (Motion picture) Coronet Instructional Films, 1946.

11 min., ed., color, 16 mm.

With teacher's guide. Summary: Traces the seasonal aspect of bird life, the interdependence of living things, and the food-getting adaptations of birds in winter. Shows how in one feeding station to attract such winter birds as chickadees, nuthatches, woodpeckers, juncos, cardinals, English sparrows, starlings, and robins, and how to recognize each.

— Another issue. b&w.

Birds of our storybooks (Motion picture) Coronet Instructional films, 1955.

10 min., ed., color, 16 mm.

With study guide. Summary: Scenes of the robin, sparrow, cardinal, crow, owl, blue jay, red-tailed woodpecker, vireo, and osprey in their natural habitats are integrated with storybook illustrations, poems, and stories about birds. Shows the homes, eating habits, coloring, and other characteristics of the birds.

— Another issue. b&w.

Birds of prey (Motion picture) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1958.

10 min., ed., b&w, 16 mm.

Summary: Portrays activities, development, and habitats of representative species of owls, vultures, eagles, and hawks. Depicts the carnivorous habits of birds of prey, and shows how these birds are equipped with strong talons and sharp, hooked beaks for catching and tearing apart their victims. Through scenes of nest life shows the guarding and feeding of the young and the gradual development of the young into adult birds.

Birds of the countryside (Motion picture) Coronet Instructional Films, 1954.

10 min., ed., color, 16 mm.

With study guide. Summary: The Indigo bunting, eastern bluebird, marsh hawk, sparrow hawk, night hawk, mourning dove, meadowlark, and killdeer are seen in their feeding places. Emphasizes the value of these birds to man and includes scenes which show the markings and plumage of the birds, what they eat, and how they care for their young.

— Another issue. b&w.

Birds of the dooryard (Motion picture) Coronet Instructional Films, 1954.

11 min., ed., color, 16 mm.

With study guide. Summary: Presents birds which build their nests in gardens and near houses—chickadee, yellow warbler, eastern phoebe, yellow-shafted flicker, cardinal, meadowlark, house wren, and purple martin. Describes the differences among these birds, their ways of protecting their nests and feeding their young, and ways in which they can be encouraged to nest around houses.

— Another issue. b&w.

ZOOLOGY

Birds of the inland waterways (Motion picture) Coronet, 1946.

11 min., ed., color, 16 mm.
With teacher's guide.
Summary: Presents various birds of inland waterways in their native habitats. Shows the belted kingfisher, the glossy ibis, avocet, red-tailed antelope, Canada goose, lesser scaup duck, and several members of the heron family. For primary and intermediate grades, high school, and adult groups.

Birds of the marshes (Motion picture) Coronet, 1946.

11 min., ed., color, 16 mm.
Kaleidochrome.
With teacher's guide.
Summary: Presents the usually secluded lives of various marsh birds. Presents shots of the feeding of young bitterns and long-billed marsh wrens, and a group of the red-winged blackbird, black tern, rose rail, and pied-billed grebe.

Birds of the Prairie (Motion picture) Minneapolis-Moline Co., 1954.

10 min., ed., color, 16 mm.
Summary: Shows the Western Prairie when flowers are in bloom and birds are nesting. Includes shots of blackbirds, white-crowns, long-legged curlews, a long-billed curlew, common and black terns, gulls, and pelicans.

Birds of the sea (Motion picture) Fox Film Corp., 1953.

Released for educational purposes by Teaching Film Cautodians, 1953.
10 min., ed., b&w, 16 mm. (Magic carpet series)
Summary: Presents aquatic birds in various parts of the world photographed from a four-masted sailboat. Shows flocks of gulls, broadbill ducks, pelicans, gannets, cormorants, murres, and penguins. For grades through college.

Birds of the woodlands (Motion picture) Coronet Instructional Films, 1946.

11 min., ed., color, 16 mm.
Kaleidochrome.
With teacher's guide.
Summary: Depicts the lives of birds who make their homes in the woodlands. Shows the flicker who lives in a tree trunk, the redstart who coveys her nest, the purple Finch whose nest is at the top of a pine, and the chickadee who builds on the ground. Presents also some candid shots of the black-bellied cuckoo.

Birds of Woody Island (Motion picture) U. S. Fish and Wildlife Service, 1950.

15 min., ed., color, 16 mm.
Summary: Birdlife and conservation measures on an island in Howland National Wildlife Refuge in Montana. Includes the common tern, rose-bill gull, California gull, double-crested cormorant, and white pelican.

Birds that eat fish (Motion picture) International Film Bureau, Inc., 1953.

6 min., ed., color, 16 mm. (Living Science Series no. 2)
Summary: Physical structure of birds adapted to kind of food they eat. Characteristics of fish eaters: long toes and legs to support wading birds; sharp bills; strong wings, legs and talons; waterproof feathers. Shows, kingfisher, cormorant, grebe, loon.

Birds that eat flesh (Motion picture) International Film Bureau, Inc., 1953.

6 min., ed., color, 16 mm. (Living Science Series no. 2)
Summary: Physical structure of birds adapted to their needs in those that eat flesh, secured by hunting other birds, mammals and reptiles. Hawk family: strong wings, talons and sharp hooked bill. Night hawks: sharp hooked bill, powerful talons, keen night vision and sensitive hearing. Soft downy feathers on wing tips to make flight noiseless.

Birds that eat insects (Motion picture) International Film Bureau, Inc., 1953.

6 min., ed., color, 16 mm. (Living Science Series no. 2)
Summary: Physical structure of birds is adapted to kind of food they eat. Characteristics of insect-eating species: strong wings, wide bills of birds that chase insects in air; small size and agility of birds that hunt in bushes; strong chisel-shaped bill of woodpecker. Birds shown are swallow, night hawk, blue kingbird, chestnut-sided warbler, yellow warbler, black-billed cuckoo, white-breasted nuthatch, hairy downy and red-headed woodpeckers, flicker, robin, housewren.

Birds that eat seeds (Motion picture) International Film Bureau, Inc., 1953.

6 min., ed., color, 16 mm. (Living Science Series no. 2)
Summary: Physical structure of birds is adapted to kind of food they eat. Bird feeding pet canary draws attention to bird's cone-shaped bill, small size, agility. Similar features noted in evening grosbeak at boy's feeding station and in other seed eaters in natural habitats: juncos, redpolls, house finches, goldfinches, white-crowned sparrow, song sparrow, grousebill, cedar waxwing.

Birds of a butterfly (Motion picture) Sterling Educational Films, 1953.

8 min., ed., b&w, 16 mm.
Another issue, color.

Black bear twins (Motion picture) Encyclopaedia Britannica Films, 1953.

10 min., ed., b&w, 16 mm.
Second edition.
Summary: Describes the adventures of two mischievous bear cubs. Includes scenes of the cubs searching for food, riding a log fire, and invading a camp site. For primary and middle grades.

The bobolink and blue jay (Motion picture) Coronet, 1946.

11 min., ed., color, 16 mm.
With teacher's guide.
Summary: Shows the family life of the blue jay, who lavishes attention on his helpless young, and the bobolink, who also is on the job when the youngsters get hungry. For primary, intermediate, and high school grades and adult groups.

Bowwhite in the fencerows (Motion picture) Oklahoma Game and Fish Dept. Made by University of Oklahoma. Released by Calvin Co., 1951.

20 min., ed., color, 16 mm.
Summary: Shows the ways in which the average citizen can aid in protecting more game through the planning of natural habitats; points out erosion, burning, clean-farming, and pollution as enemies of game.

Breaking the web (Motion picture) Thomas Craven Films Corp. Released by Picture Films Corp., 1954.

11 min., ed., color, 16 mm. (The world around us, no. 10)
With study guide.
Summary: Explores the effects of the injudicious economic development and mismanagement of land on wildlife. Points out that the destruction of soil by fire, the effects of improper drainage on water tables and vegetation, and poorly planned and careless use of man are among the causes of the destruction of wildlife.

Brown bears go fishing (Motion picture) Coronet Instructional Films, 1955.

11 min., ed., color, 16 mm.
With study guide.
Summary: While reading and looking at storybooks, primary pupils learn about the habits of polar bears and American black bears. Shows Alaskan brown bears swimming in a stream, climbing and eating salmon, fighting over fish, and teaching cubs how to swim.
Another issue, b&w.

Buffalo lore (Motion picture) Hawley-Lord. Released by Sterling Films, 1947.

10 min., ed., color, 16 mm.
Summary: Traces the history of the bison and pictures one of the remaining herds. Shows a rare white bison, and a fight between two bulls.
Another issue, b&w.

Building bird houses (Motion picture) International Film Bureau, 1952. Made by Crawley Films, Ottawa.

6 min., ed., color, 16 mm.
Summary: Demonstrates how to construct bird houses; shows the material to be used, and various types of homes and their purposes.

Butterflies (Motion picture) Electrical Research Products, 1951. Released by Encyclopaedia Britannica Films.

11 min., ed., b&w, 16 mm.
Other versions issued: Portuguese and Spanish.
With teacher's guide.
Summary: The life cycle of the cabbage butterfly and the swallowtail butterfly. Animated drawings depict the four developmental stages—egg, larva, chrysalis, and adult. Cinematograph pictures trace the laying of eggs, the feeding of larvae, the spinning of chrysalis supports, and the hatching of eggs and larvae by the film-camera eye. Time-lapse studies reveal the emergence of butterflies from their chrysalises.

The butterfly: a life cycle of an insect (Motion picture) Coronet Instructional Films, 1955.

6 min., ed., color, 16 mm.
With study guide.
Summary: Follows a monarch butterfly through its life cycle. Describes common characteristics of moths and butterflies as well as differences between them.
Another issue, b&w.

Butterfly botanists (Motion picture) Coronet, 1947.

11 min., ed., color, 16 mm.
With teacher's guide.
Summary: Presents the life cycle of the monarch butterfly, viceroy, wanderer, and other butterflies. Includes reference to the plants on which they live. For intermediate, junior and senior high school grades.
Another issue, b&w.

ZOOLOGY

The chain of life (Motion picture) Thomas Craven Films Corp. Released by Picture Films Corp., 1954.

11 min., ed., color, 16 mm. (The world around us, no. 1)
With study guide.
Summary: Describes nature's method of making food chains which tie together all the living creatures in a community. Includes close-up of tadpoles eating algae, scenes of crawfish catching and eating tadpoles, fish in the food chain through green lake, fish eggs, turtle eggs, snakes, raccoons, and skunk. Shows a Nophthalmus moth hatching from its cocoon, and a spider building its web.

Children's Zoo (Motion picture) U. S. Information Agency, 1950.

10 min., ed., b&w, 16 mm.
Another issue, 35 mm.
Summary: Children's Zoo and Farm, part of Bronx Zoo, New York City, combining entertainment and education, teaches city children about nature while they play with animals.

Chipmunk and his bird friends (Motion picture) Marian Evans. Released by Bailey Films, 1953.

11 min., ed., color, 16 mm.
With study guide.
Summary: Shows chipmunks and squirrels storing their winter supply of acorns underground while birds search for insects in a pine tree. The chipmunks discover a bird food pantry supplied by some children. Many varieties of birds come to eat the food.

Chucky Lou—the story of a woodchuck (Motion picture) Audio-Visual Center, Indiana University, 1948.

30 min., ed., color, 16 mm.
Correlated filmstrip also issued.
Summary: The story of a little woodchuck who is brought from her home in the wood to a pet house in the park, where she becomes tame and learns to eat natural food and even to permit children to dress her in various costumes. The concluding sequences show Chucky Lou gathering grass and making a bed in which she hibernates.

Another issue, b&w.

The clouds (Motion picture) U. S. Dept. of Agriculture, 1953.

20 min., ed., b&w, 16 mm.
A revision of the 1937 film with same title.
Summary: Explains and shows various stages in the life cycle of the potential clouds or 11-year locust. Includes a foreword by the current (1953) Chief of the Bureau of Entomology and Plant Quarantine, Dept. of Agriculture.
Another issue. 35 mm.

Color changes in fish and squids (Motion picture) University of Iowa. Made and released by Rutgers Films, 1956.

14 min., ed., color, 16 mm. (Instruction film)
Kaleidochrome.
Summary: Shows two contrasting types of pigment mechanisms. Depicts the killifish *Pundulus* in its various color phases—light, dark, and intermediate shades, and adapted to a colored background. Magnified views show the body surfaces of the fish, distribution of melanophores, xanthophores, and iridophores, pigment within bodies, branching processes with both nervous and hormonal control. Illustrates another method of color change by fibers of the young squid, *Loligo*. Shows how nerve impulses produce contraction of muscles attached to the pigment sacs, causing rapid pulsations of the elastic membrane, with a consequent change in the pigment area.

ZOOLOGY

Color changes in frogs and crustaceans (Motion picture) University of Iowa. Made and released by Rutgers Films, 1955.

14 min., ed., b&w, 16 mm. (Biological film)
Summary: Describes the mechanism of color changes in larval and adult frogs and in the shrimp, *Palaeomonetes*. Shows these animals adapted to black and white backgrounds, illustrating extreme conditions of pigment migration; shows individual chromatophores in all stages of pigment dispersion; time-lapse pictures demonstrate flow of pigment within the branching processes of the pigment cells; and a demonstration shows the technique of injecting the pigment-concentrating hormone to illustrate hormonal control of pigment migration.

Common animals of the woods (Motion picture) Encyclopedia Britannica Films, 1943.

11 min., ed., b&w, 16 mm. (Primary science)
With teacher's guide.
Summary: Presents a study of various common animals in their natural habitat. Gives information as to appearance, size, adaptations, habits, habits, and care of the forest for such animals as the squirrel, rabbit, raccoon, porcupine, otter, mink, beaver, opossum, skunk, and woodchuck.

The cow and its relatives (Motion picture) Coronet, 1941.

11 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Shows the familiar, domestic cow and some of its lesser known relatives: the zebu of India, the yak of Tibet, and the almost extinct American bison, the greater kudu, the giant eland, and several antelope of Africa. For primary, intermediate, and junior high school grades.

Crustaceans: lobsters, barnacles, shrimp, and their relatives (Motion picture) Encyclopedia Britannica Films, 1955.

12 min., ed., color, 16 mm.
With film guide.
Summary: Describes characteristics common to crustaceans and explains how they are related to other arthropods of the past and present. Illustrates the structure and life processes of representative types of crustaceans, including the fairy shrimp, the crayfish, the cyclops, the barnacle, and the crayfish. Discusses the economic importance of crustaceans.
Credits: Producer, William A. Anderson; collaborator, Frank A.

Cultivate your garden birds (Motion picture) Audio-Visual Education Service, University of Minnesota. Made and released by University of Minnesota, 1950.

10 min., ed., color, 16 mm.
Summary: Presents close-up photographs of colorful garden birds, and offers specific suggestions on how to attract birds to the area.

The curious coati (Motion picture) Young America Films, 1947.

8 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Follows the adventures of a pair of coatis, small animals native to Central and South America and related to the racoon in appearance and living habits. For primary grade.

Deadly spiders (Motion picture) Australian Instructional Films. Made by Ayresdale Studios. Released in the U. S. by Library Films, 1952.

9 min., ed., b&w, 16 mm. (Wild life series, no. 10)
With study guide.
Summary: Discusses the habits and characteristics of spiders, and points out that most spiders are harmless and should not be destroyed. Describes several poisonous species and shows in detail the funnel web spider. Shows first aid for spider bites.

The deer and its relatives (Motion picture) Coronet, 1946.

11 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Shows the wide variety of adaptations of members of the same family for living in different parts of the world. Compares and contrasts the white-tailed deer, the fallow deer, the elk, bison, caribou, muskox, reindeer, sheep, llama, and guanaco. For primary, intermediate, and junior high school grades.

Dwellers of Death Valley (Motion picture) Allen and Allen Productions. Released by Bailey Films, 1947.

17 min., ed., b&w, 16 mm.
A sequence edited from the 1932 sound film Death Valley.
Summary: Shows the flora and fauna of Death Valley, dealing primarily with the small animals, birds, and insects of the desert. Shows briefly the way of life of the Valley Indians.
Another issue. 35 mm.

Desert demons (Motion picture) Educational Pictures, 1932.

Released for educational purposes by Teaching Film Company, 1939.
 9 min., ed., b&w, 16 mm. (Battle for life series)
Summary: Shows some of the habits and activities of American desert animals—the tortoise, the spiny-tailed lizard, the lizard, the scorpion, and others.

Desert land (Motion picture) Van Beuren Corp. Made by Stacey & Horace Woodard, 1937. Released by RKO Radio Pictures.

10 min., ed., b&w, 16 mm. (Struggle to live series)
Summary: Shows the constant search for food by animals, reptiles and insects of the desert, to exemplify the cunning and hardiness of these creatures. Includes the lizard, the spiny-tailed lizard, the scorpion, the horned toad, the lizard, and various snakes.

The development of a frog (Motion picture) Dept. of Zoology, Ohio State University. Made and released by Dept. of Photography, 1951.

10 min., ed., b&w, 16 mm.
Summary: Shows, through time-lapse and photomicrography, the cell division of a frog egg (*Rana pipiens*).

Development of the chick embryo (Motion picture) Coronet Instructional Films, 1953.

6 min., ed., color, 16 mm.
Summary: Drawings and photographs are used to trace the development of a chick embryo and to show how the chick is hatched.
Another issue. b&w.

Development of zebra fish egg (Motion picture) The Wistar Institute, 1944.

10 min., ed., b&w, 16 mm.
Summary: Elucidates formation and streaming of endoplasm into disk. Periodic movements of non-fertilized eggs. Cleavage, gastrulation and involution of disk cells to form germ ring. Periodic locomotion of granules in large blastomeres. Embryogenesis; a 48-hour and a newly hatched 72-hour fish.

A dog's life in the North Woods (Motion picture) Hawley-Lord. Released by Sterling Films, 1945.

9 min., ed., color, 16 mm.
Summary: Presents a study of little known working dogs as used by the Cree Indians during the trophy season.
Another issue. b&w.

Dwellers of swamp and pond. Reel I: The salamanders (Motion picture) University of Iowa. Made and released by Rutgers Films, 1955.

14 min., ed., color, 16 mm. (Biological film)
Kodachrome.
Summary: Shows various salamanders found in New Jersey and in the Northeastern United States. Close-up shows external structure and diagnostic characters; objects some larvae hatching; identifies each form with its common and scientific name. Includes the common gray, red, and yellow spotted, marbled, tiger, four-toed, red-backed, slimy, two-lined, long-tailed, and dusky salamanders.

Dwellers of swamp and pond. Reel II: The frogs and toads (Motion picture) University of Iowa. Made and released by Rutgers Films, 1955.

14 min., ed., color, 16 mm. (Biological film)
Kodachrome.
Summary: Shows the anura found in New Jersey and the Northeastern United States, identifying each form with its common and scientific name. Includes details of the spadefoot toad, Fowler's toads and tadpoles, cricket frog, anklebiters tree frog, spring peeper and tadpoles, common tree toad, bull frog and metamorphosing tadpoles, green frog and tadpoles, pickerel frog, leopard frog, southern leopard frog, wood frog, and carpenter frog.

Elephants (Motion picture) Epi Classroom Films (later name Encyclopedia Britannica Films) 1940.

11 min., ed., b&w, 16 mm. (Primary science)
With teacher's guide.
Summary: Portrays the characteristics and training of domesticated elephants, describing the animals' physical features, food, and methods of eating, drinking and bathing. Shows an adult elephant performing for a circus buyer and young elephants learning to stand on their front and hind legs, to sit on barrels, to walk plank, to ring bells, and to obey their commands.

Farm babies and their mothers (Motion picture) Film Associates of California, 1954.

10 min., ed., color, 16 mm.
Eastman color.
With teacher's study guide.
Summary: Introduces seven different farm animal babies and their mothers; shows and describes each animal; and indicates its habits and economic importance. At the end of each sequence, identifies by name the animal mother and her baby. For primary grade.
Another issue. b&w.

Field trip to a fish hatchery (Motion picture) Coronet, 1950.

11 min., ed., color, 16 mm.
With teacher's guide.
Summary: Explains the functions of fish hatcheries and their importance in the conservation program. Describes the life cycle of a fish—shows fish eggs taken from the female, fertilized, and hatched, and the development from fry into fingerlings. Includes details about the structure of fish and how fish are planted in the streams and lakes. For intermediate grade and junior high school.
Another issue. b&w.

Fish are interesting (Motion picture) Film Associates of California, 1954.

10 min., ed., color, 16 mm.
Eastman color.
With teacher's study guide.
Summary: Describes the major groups of fish; indicates their way of life; and relates them to the rest of the animal kingdom.
Another issue. b&w.

Five colorful birds (Motion picture) Coronet Instructional Films, 1954.

10 min., ed., color, 16 mm.
New version.
With study guide.
Summary: Shows the goldfinch, cedar waxwing, scarlet tanager, woodpecker, and eastern bluebird in their natural habitat. Describes the way in which these birds feed and protect their young, the way in which they nest, and the protective coloration of their plumage.
Another issue. b&w.

The frog (Motion picture) Electrical Pictures System, 1937.

10 min., ed., b&w, 16 mm.
Summary: Life processes in evolution from single cell to tadpole, to frog; each life phase explained in detail.

Frog (Motion picture) Electrical Research Products, 1931.

Released by Encyclopedia Britannica Films.
 10 min., ed., b&w, 16 mm.
Summary: Traces the development of the frog and examines its physical traits and characteristics. Through close-up and time-lapse photography portrays the development of the tadpole embryo and the hatching of eggs. Explains the growth of the tadpole and discusses the physical characteristics and natural traits of the adult frog.

Frogs and toads (Motion picture) Conton Corporation, 1955.

11 min., ed., b&w, 16 mm.

A frog's life (Motion picture) Plymouth Productions. Released by Coronet Instructional Films, 1955.

10 min., ed., b&w, 16 mm.
With study guide.
Summary: After collecting frog spawn from a river and putting it into a tank, young children observe the hatching of the spawn and the development of the tadpole into frog. Shows the children feeding the tadpoles and changing the contents of the tank to meet the needs of the tadpoles as they develop. Close-up photography is used in recording the gradual changes in the frog's development.

The fur seal (Motion picture) Young America Films, 1947.

10 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Shows how and where the fur seal lives, its place in the biological kingdom, and its importance to man. For upper elementary and high school grades.

ZOOLOGY

The grasshopper: a typical insect (Motion picture) Coronet Instructional Films, 1955.

6 min., ed., color, 16 mm.

With study guide.

Summary: Shows the body structure of the grasshopper and explains that its structure determines the basic characteristics of all insects. Presents a study of the life cycle of a grasshopper to illustrate the process of incomplete metamorphosis. Discusses the development of the grasshopper.

—Another issue. b&w.

Gray gull, the hunter (Motion picture) Svensk Filmindustri, Stockholm. Released in the U. S. by Encyclopedia Britannica Films, 1955.

18 min., ed., b&w, 16 mm.

Previously released under the title Sea gulls. Swedish version released under the title Duv.

With teacher's guide.

Summary: A story of bird life on a rocky Swedish island, showing the gray gull as marauder.

Gray squirrel (Motion picture) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1938.

11 min., ed., b&w, 16 mm.

With film guide and reader.

Summary: Presents the story of three young squirrels and their mother. Follows the growth and daily activities of the young squirrels from spring to autumn. Shows the mother feeding and caring for her young, and the young squirrels learning to climb, to hunt for food, and to take care of themselves. For primary and intermediate grades.

Grass of the Grasslands (Motion picture) American Museum of Natural History. Released by Encyclopedia Britannica Films, 1950.

10 min., ed., color, 16 mm.

Summary: Shows the mating ceremony of the prairie chicken. Portrays the hunting of the male, his striving to attract the female, and his mating-time coloration. Filmed in western Missouri.

Herring of crabland (Motion picture) Van Beuren Corp. Made by H. & S. Woodard. Released by RKO Radio Pictures, 1935.

10 min., ed., b&w, 16 mm. (Struggle to live)

Summary: Presents various types of crabs, showing in detail how this form of marine life exists, protects itself from enemies, feeds itself, and raises its young.

Honey bee (Motion picture) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1940.

11 min., ed., b&w, 16 mm.

With teacher's guide.

Summary: Portrays, through close-up photography, the life cycle and habits of the honey bee, illustrating functions of the queen, the workers, and the drones. Discusses the following major phenomena: life cycle from egg-laying through metamorphosis; gathering of nectar and pollen; manufacture of honey; close relationship of flowers, the new comb. For elementary grades, high school, and adult groups.

The honeybee (Motion picture) Allen-More Productions, Inc., 1953.

15 min., ed., b&w, 16 mm.

—Another issue. color.

The honeybee: a social insect (Motion picture) Coronet Instructional Films, 1955.

6 min., ed., color, 16 mm.

With study guide.

Summary: Uses a honeybee community to illustrate characteristics of social insects. Shows the development of eggs into adult bees; explains the roles of workers, drones, and the queen bee.

—Another issue. b&w.

The honeybees (Motion picture) Audio-Visual Education Service, University of Minnesota, 1952.

20 min., ed., color, 16 mm.

With teacher's guide.

Summary: Illustrates various roles of the honeybee's life cycle, from the laying of the eggs by the queen until the adult worker, drone, or queen emerges. Depicts the activities of the bees from the gathering of nectar to swarming.

The horse (Motion picture) Erpi Classroom Films (later name Encyclopedia Britannica Films) 1941.

11 min., ed., b&w, 16 mm. (Primary school)

With teacher's guide.

Summary: Illustrates various roles of the horse in modern life, and traces the development and training of a colt until he becomes a saddle horse at three years of age. Depicts stages of colt's growth, early life with mother, weaning, first training, training for steeple, breaking to the saddle, training the gait, and performing at a horse show.

How animals defend themselves (Motion picture) Young America Films, 1945.

10 min., ed., b&w, 16 mm.

With teacher's guide.

Summary: Shows the way in which animals are adapted for protection against other animals and nature. Discusses speed and agility, tough shells and hides, sharp claws and fangs, camouflage, and mimicry. For elementary school grades.

How animals eat (Motion picture) Young America Films, 1945.

10 min., ed., b&w, 16 mm.

With teacher's guide.

Summary: Explains how animals have become adapted for food-getting in order to survive. Shows food-getting adaptations such as teeth, claws, beaks, poison mechanism, and webs. For elementary school grades.

How animals live in winter (Motion picture) Coronet Instructional Films, 1935.

11 min., ed., color, 16 mm.

With teacher's guide.

Summary: Two children who explore a snowy woodland learn how birds, squirrels, rabbits, weasels, badgers, skunks, and deer become adapted to winter conditions.

—Another issue. b&w.

How animals move (Motion picture) Young America Films, 1945.

10 min., ed., b&w, 16 mm.

With teacher's guide.

Summary: Shows how an animal's method of locomotion is adapted to get food and to solve the problems of environment. For elementary grades.

How do you zoo? (Motion picture) Hardcastle Films. Released by Sterling Films, 1948.

11 min., ed., b&w, 16 mm.

With study guide.

Summary: Depicts special exhibitions and animal shows that are arranged by the St. Louis Zoo for the children of the city.

How nature protects animals (Motion picture) Electrical Research Products, 1951. Released by Encyclopedia Britannica Films.

11 min., ed., b&w, 16 mm. (Animals and environment)

With teacher's guide.

Summary: Examines the phenomena of protective adaptation of various animals in different environments. Portrays representative types in their natural habitats and illustrates different kinds of protection including ability to run rapidly, military, camouflage, armor, and secluded homes. Among the animals shown are the tiger, giraffe, zebra, horse, kangaroo, rabbit, chameleon, mole, woodpecker, scorpion, porcupine, leopard caterpillar, and beetle moth.

Hummingbird homelife (Motion picture) Guy D. Haselden Productions. Released by Bailey Films, 1940.

10 min., ed., b&w, 16 mm.

With teacher's guide.

Summary: A study of the nesting habits of the hummingbird. Shows how the hummingbird gathers food and cares for its young.

In our garden (Motion picture) Edited Pictures System, 1927.

10 min., ed., b&w, 16 mm.

With teacher's guide.

Summary: Walk through garden reveals everyday inhabitants: bees, bumblebees and bees, squirrel, mother crane and nest, spider, caterpillar, dragonfly, snail, slug, beetle, earthworm, moth, butterfly, ant, lady-bug.

Insect zoo (Motion picture) Paul Burnford Productions. Released by Encyclopedia Britannica Films, 1950.

10 min., ed., color, 16 mm. (Primary school)

With teacher's guide.

Summary: Two children make an insect zoo in their yard and study the characteristics of the ladybird, cricket, butterfly, millipede, hybrid beetle, ant, and praying mantis. Shows a group of close-up photographs the distinguishing features of each insect, and depicts simple homes which can be made for insects in an exhibit.

Insects (Motion picture) Encyclopedia Britannica Films, 1953.

10 min., ed., color, 16 mm.

With teacher's guide.

Summary: Enumerates characteristics of insects. Shows reproductive and growth processes, differentiation, and eating habits (types) of each of the five classes within the insect world. Describes the constructive and destructive habits of a variety of insects and the natural and man-made controls which prevent unlimited insect multiplication.

Introducing the reptiles (Motion picture) McGraw-Hill Book Company, Inc., 1954.

17 min., ed., b&w, 16 mm.

—Another issue. color.

ZOOLOGY

The invader (Motion picture) Thomas Craven Films Corp. Released by Picture Films Corp., 1954.

11 min., ed., color, 16 mm. (The world around us, no. 8)

With study guide.

Summary: Depicts the life cycle of the salmon and describes the main problems threatening their existence—the building of dams along the rivers used by the fish, the pollution of the waters by industrial plants, and inadequate sewage disposal in cities.

Just off shore (Motion picture) Thomas Craven Films Corp. Released by Picture Films Corp., 1954.

11 min., ed., color, 16 mm. (The world around us, no. 9)

With study guide.

Summary: A study of birds that wade as they hunt. Shows in close-up and slow-motion scenes, the actual hunting, courting, feeding, and nesting habits of the white and glossy ibis, Florida crane, and roseate spoonbill.

Keith, the wombat (Motion picture) Australian Instructional Films. Made by Aronold Studios. Released in the U. S. by Library Films, 1955.

7 min., ed., b&w, 16 mm. (Wild life)

With study guide.

Summary: A study of the origin, life cycle, habits, and characteristics of the wombat. Includes a story about Keith, a pet wombat, showing his learning table manners from his mistress, crossing a river, climbing his fur, etc.

Killers (Motion picture) Educational Film Exchanges, 1932. Released for educational purposes by Teaching Film Cus-todians, 1950.

9 min., ed., b&w, 16 mm. (Battle for life series)

With teacher's guide.

Summary: Shows the activities of the praying mantis, hunting wasp, cricket, spider, and scorpion as they devour each other and other insects in their search for food.

King of the river (Motion picture) Thomas Craven Films Corp. Released by Picture Films Corp., 1954.

11 min., ed., color, 16 mm. (The world around us, no. 7)

With study guide.

Summary: Records the life cycle of the salmon from spawn to full growth. Shows in slow-motion scenes of fish feeding waterfalls as the new season.

The koala, or native bear (Motion picture) Australian Instructional Films, in cooperation with the Australian Museum in Sydney, Taronga Zoological Park Trust, and N. S. W. Fauna Protection Fund. Made by Aronold Studios. Released in the U. S. by Library Films, 1952.

10 min., ed., b&w, 16 mm. (Wild life, no. 1)

With teacher's guide.

Summary: Introduces the koala as a marsupial mammal and defines these terms. Outlines the characteristics of the koala, and through animation shows its development from the embryonic stage to maturity. Explains the eating habits of the animal and the importance of a correct diet. Discusses the need for protection and conservation of koalas.

ZOOLOGY

Let's catch reptiles (*Motion picture*) Paul Harrison Film Productions, 1949. Released by Instructional Films, 1953.
10 min., sd., color, 16 mm.

Kodachrome.
With teacher's guide.
Summary: Three young children go on a collecting trip to the fields near their home. They find a brown-headed lizard, a blue-bellied whiptail, a skink, a hooded lizard, a tortoise, and a king snake. The children learn about the habits of the animals, discover that most animals are helpful to man, and decide that their most interesting pets.

Let's go to the zoo (*Motion picture*) Hamon Foundation, Inc., 1959.
11 min., sd., b&w, 16 mm.

Summary: Animals at London Zoo: polar bears, black and brown bears, penguins, pelicans, tigers, lions, elephants, apes, monkeys, snakes, and a goat. Seen in their natural activities: eating, bathing, and amusing themselves. Jacquotte a baby chimpanzee. Titled in simple verse; for children.

Let's look at animals (*Motion picture*) Young America Films, 1943.
11 min., sd., b&w, 16 mm.

With teacher's guide.
Summary: Shows by animation how animals differ in both appearance and living habits. For primary grades.

Let's look at elephants (*Motion picture*) McGraw-Hill Book Company, Inc., 1954.
16 min., sd., b&w, 16 mm.

Life along the waterways (*Motion picture*) Encyclopedia Britannica Films, 1953.
11 min., sd., color, 16 mm.

Summary: Shows the variety of environmental conditions in a changing waterway. Includes scenes of natural and plant life found in streams, ponds, rivers, and marshes.

Life cycle of harvester ant, part 2 (*Motion picture*) Temp-Kin Films, 1958.
11 min., sd., color, 16 mm.

Summary: A study of the life cycle of the harvester ant, *Pogonomyrmex subterraneus*, in high-magnification with slow-motion footage. Shows the worker ants, and provides a close-up of the actual animal mating followed by the death of the male, self-immolation of the pregnant ant, the shedding of the primary wings, the eggs, pupae and larval forms in process of development, and the hatching of larvae. Depicts the activities of the ant colony on an invasion by Argentine ants.

Life cycle of the duck (*Motion picture*) Bailey Films, Inc., 1948.
10 min., sd., b&w, 16 mm.

Summary: Study of heredity and environment, based on life cycle of Muscovy duck (*Cairina moschata* Linn.). Shows varieties of newly hatched, ducklings, which include how this species retains hereditary traits through controlled breeding, acquisition of heredity and hereditary traits.

The life cycle of the mosquito (*Motion picture*) Emerson York Studio. Released by Young America Films, 1948.
12 min., sd., b&w, 16 mm.

With teacher's guide.
Summary: Describes the life cycle, structure, and feeding habits of the mosquito. Live action combined with animation is used to show the anatomy of the egg, and the larval and pupal stages of the mosquito. For high school and college groups.

Life cycle of the sockeye salmon (*Motion picture*) Paul Hodier Productions, 1951.
11 min., sd., b&w, 16 mm. (Natural Resources Series)

Summary: Laying and fertilization of salmon eggs, development of new fry; growth of young fish; journey of the fingerlings to sea; return of mature salmon to birthplace to spawn and die.

Life in an aquarium (*Motion picture*) Leonard Peck Productions. Released by Young America Films, 1950.
© Leonard Peck Productions; 1 Nov 50; MP1907.
11 min., sd., b&w, 16 mm.

Summary: Elementary school children study an aquarium in order to learn how animals breathe and move about under water and how the tanks develop into a frog.

Life of the harvester ant, part 1 (*Motion picture*) Temp-Kin Films, 1958.
11 min., sd., color, 16 mm.

Kodachrome.
Summary: Presents a high-magnification study of the habits of worker ants of the genus *Pogonomyrmex californicus*, and explains through animation the various parts of the ant's body and function of its sensory organs. Shows how to capture and maintain and to feed the colonies. Depicts ants at work gathering food, drinking, tending, in deadly combat with invaders from a neighboring colony, carrying weights 15 times as heavy as themselves, and cooperating to remove a poison from a shocked insect.

Little Joe Otter (*Motion picture*) Sterling Educational Films, 1954.
10 min., sd., b&w, 16 mm.

Summary: Another issue. color.

Live teddy bears: The koala (*Motion picture*) Encyclopedia Britannica Films, 1947.
11 min., sd., b&w, 16 mm. (Primary school)

With teacher's guide.
Summary: Portrays the life and habits of the koala, a strange animal of Australia. Shows the koala first in a park and then in its native habitat, the Australian bush country, and explains how the koala is adapted to its environment, especially in relation to food supply.

Lives of their own (*Motion picture*) Thomas Craven Films Corp. Released by Picture Films Corp., 1954.
11 min., sd., color, 16 mm. (The World around us, no. 2)

With study guide.
Summary: Shows the specialized environment of the wood frog (*Rana sylvatica*) and how it survives in its environment. Shows the frog's life cycle and how it adapts to its environment. Shows the frog's life cycle and how it adapts to its environment. Shows the frog's life cycle and how it adapts to its environment.

The locomotion of snakes (*Motion picture*) McGraw-Hill Book Company, 1953.
10 min., sd., b&w, 16 mm. (Reptile Series)

Summary: Four characteristic methods of locomotion of snakes: lateral undulatory or serpentine, ventral or caterpillar, slithering, high-stepped or concertina method, used in climbing trees.

Mammals are interesting (*Motion picture*) Encyclopedia Britannica Films, 1953.
12 min., sd., color, 16 mm.

With teacher's guide.
Summary: Discusses the characteristics of primates, sea mammals, fish, reptiles, birds and insects and explains how they differ from mammals. Shows how mammals, carnivores, rodents, and primates are basically alike and describes the characteristics which are peculiar to each group.

Mammals of the countryside (*Motion picture*) Coronet Instructional Films, 1947.
11 min., sd., color, 16 mm.

Kodachrome.
With teacher's guide.
Summary: Explores the habits and characteristics of countryside mammals—beaver, fox, mink, skunk, opossum, and others. Illustrates through natural-action shots, how some are helpful and others harmful to the farmer.

Mammals of the Rocky Mountains (*Motion picture*) Coronet Instructional Films, 1947.
11 min., sd., color, 16 mm.

Kodachrome.
With teacher's guide.
Summary: Presents animals typical of various mountain areas, showing their adaptation to changing seasons. Reveals how the mountain goat, bighorn sheep, mule deer, marmot, porcupine, and others solve their particular problems of food supply.

Mammals of the Western Plains (*Motion picture*) Coronet Instructional Films, 1947.
11 min., sd., color, 16 mm.

Kodachrome.
With teacher's guide.
Summary: Through the example of the plant-eaters and meat-eaters of the plains, illustrates the inter-relationship of the wildlife in an area. Discusses, through scenes in their natural habitat, how the buffalo, antelope, timber wolf, and others are fitted to find their food and to protect themselves.

Marine animals and their foods (*Motion picture*) Coronet Instructional Films, 1949.
8 min., sd., color, 16 mm.

Kodachrome.
With teacher's guide.
Summary: Demonstrates the interrelation of marine animals and their environment. Shows various sea animals such as the sea anemone, sea urchin, hermit crab, octopus, and the general types of food on which they depend. Explains their specific adaptations for obtaining one or more of the main types of food.

ZOOLOGY

Marine communities (*Motion picture*) University of Iowa. Male and released by Rutgers Films, 1952.
14 min., sd., color, 16 mm. (Biological film)

Kodachrome.
Summary: Shows a large mussel shell supporting a marine community of brachiopods, tunicates, annelids, hermit crabs, echinoderms, and coelenterates; a hermit crab surrounded by a dense brown colony which effectively conceals the hermit and its associates; spider crabs decorating themselves with algae and various invertebrates, forming a community beneficial to all participants.

Marine life (*Motion picture*) Encyclopedia Britannica Films, 1953.
11 min., sd., color, 16 mm.

Kodachrome.
Summary: Underwater photography is used in showing how big fish hunt for victims with the small fish and snail. Includes scenes of a porpoise, a sea turtle, an angel fish, a Spanish hogfish, a sawfish, an octopus, a green scorpion, a hermit crab, and different species of crabs and shrimps. Photographed at the Marine Studios at Marland, Pa.

Meet the crabs (*Motion picture*) Kenneth L. Holst, 1947.
15 min., sd., color, 16 mm.

Summary: Several varieties of crabs shown in their natural surroundings: sand crab, rock crab, swimming crab, cancer crab, decorator crab. How they live, and protect themselves.

Meet the waterfowl (*Motion picture*) Michigan Dept. of Conservation, 1942.
10 min., sd., color, 16 mm.

Summary: Shows eighteen species of Michigan waterfowl, with many close shots for identification. Includes two sequences showing scenes of duck and goose hunting.

Michigan marsh and shore birds (*Motion picture*) Michigan Dept. of Conservation, 1942.
11 min., sd., color, 16 mm.

Summary: Shows twelve Michigan marsh and shore birds, typical of twelve avian families, in their natural habitat, at the wing, nesting, rearing young, and feeding.

Michigan red fox (*Motion picture*) Michigan Dept. of Conservation, 1947.
11 min., sd., color, 16 mm.

Summary: The story of a red fox, from puppyhood to the time when he becomes the subject of a hunt. Includes sequences showing the hunt.

Mollusks: snails, mussels, oysters, octopuses, and their relatives (*Motion picture*) Encyclopedia Britannica Films, 1953.
11 min., sd., color, 16 mm.

With teacher's guide.
Summary: Examines typical specimens of each of the five classes of the phylum Mollusca—Amphibious, Scaphopoda, Gastropoda, Polydora, and Cephalopoda—describing their wide variations in body structure, size, habitat, means of locomotion, reproductive processes, and economic importance. Emphasizes the edible bivalves (clams and oysters) of the class Polydora.

ZOOLOGY

Monarch butterfly (Motion picture) Coast Visual Education Company, 1946.
11 min., ed., b&w, 16 mm.
—Another issue, color.
Summary: Complete life cycle of the monarch, presented in full color microphoto close-ups. Development of caterpillar into chrysalis; four stages of development from egg to adult butterfly. Available in two editions—scientific with technical narration for high school and college; elementary for elementary school students.

Monarch butterfly story (Motion picture) Encyclopaedia Britannica Films, 1950.
11 min., ed., color, 16 mm.

Moose baby (Motion picture) Arthur Barr Productions, 1950.
16 min., ed., color, 16 mm.
With guide.
Summary: A wildlife story of a young moose as he grows from birth to maturity, showing how he learns about himself, his forest neighbors, and the wilderness world as it changes from season to season.

No Vacancy (Motion picture) Kenneth L. Holst, 1946.
8 min., ed., color, 16 mm.
Summary: Hermit crab in search of a shell, finds one and moves in. Another hermit crab succeeds in getting shell from him. A third crab appears. These two fight. The first moves into the shell and slips away.

Oklahoma deer story (Motion picture) University of Oklahoma, 1953.
30 min., ed., b&w, 16 mm.
Summary: Story of white-tail deer in Oklahoma and 4-H program research, refuges, restocking, regulation.

Operations wildlife (Motion picture) Virginia State Board of Education. Produced and released by Virginia Dept. of Education, 1949.
26 min., ed., color, 16 mm.
Summary: Shows Virginia game birds and animals; where they live, their place in the balance of nature, their practical and economic value to the farmer, and their recreational value to the sportsman.

Our animal neighbors (Motion picture) Coronet, 1947.
11 min., ed., color, 16 mm.
With teacher's guide.
Summary: In natural settings shows the appearance and habits of the rabbit, gray squirrel, fox squirrel, chipmunk, porcupine, deer mouse, meadow mouse, shrew, mole, and bat. For primary and intermediate grades.
—Another issue, b&w.

Passage to the pitholes (Motion picture) Franko Fur Co., 1950.
20 min., ed., color, 16 mm.
Summary: Voyage of M. S. Panguin, U. S. Fish and Wildlife Service, Seattle to Pithole Islands, by Inside Passage; scenery along route. Origin of Pithole Islands. Native village, weather, life on island. Reindeer, wild flowers, blue fox, sealbuds; vast herds of seals; their migration. Seal's life in rockeries; their mating habits. Seal pups. Former method of slaughtering seals; treaty among nations which now protects them from extinction. Seal census. How seals are killed for their fur. Modern fur processing plant; how skins are sold at auction.

Pelican, turtle, and fish from Gulf of Florida (Motion picture) University of Iowa. Made and released by Rutgers Films, 1942.
14 min., ed., color, 16 mm. (Biological film)
Kodachrome.
Summary: Shows pelicans on land, in flight, and diving for fish in shallow water. A sea turtle, dredged up from deeper water, is photographed in a shallow tidal pool. Shows fish of the Florida Gulf coast including the sea horse, squirrelfish, triggerfish, tautog, cowfish, and spiny burfish.

Pipeline swallowtail butterfly (Motion picture) Simmel-Moscow, Released by Instructional Films, 1948.
22 min., ed., color, 16 mm.
Short version also issued.
Summary: Presents metamorphic phases in the development of the pipeline swallowtail butterfly. Through close-up, studies all stages from the egg through larva and chrysalis to adult.
—Another issue, b&w.

The praying mantis (Motion picture) Superlative Productions. Released by Hollywood Film Enterprises, 1948.
11 min., ed., color, 16 mm.
With study guide.
Summary: A study of the praying mantis. Detailed microcinematography shows the form of the mantis, hatching of the eggs, how the mantis attacks its prey, and its importance to man.
—Another issue, b&w.

Protect your birds (Motion picture) Australian Instructional Films. Made by Lex Halliday. Released in the U. S. by Library Films, 1952.
9 min., ed., b&w, 16 mm. (VHS 16 mm, 5)
Kodachrome.
Summary: One day a farmer comes across two boys shooting at birds with a slug shot. He calls out to them and explains that birds are important to man and are the farmer's friends. Shows close-up shots of various Australian birds in their natural habitats and in close bird view.

The raccoons' picnic (Motion picture) Encyclopaedia Britannica Films, 1954. Made by Crawley Films, Ottawa.
7 min., ed., color, 16 mm.
Kodachrome.
Released in Canada under the title Two little raccoons.
With teacher's guide.
Summary: The story of two adventurous young raccoons who go exploring. They climb a low cliff near a lake, try to catch a frog, see two boys swimming, discover the boys' lunch, eat the lunch, and are frightened off by the boys. For primary grades.
—Another issue, b&w.

Realm of the honeybee (Motion picture) U. S. Dept. of Agriculture, 1932.
12 min., ed., b&w, 16 mm.
Summary: Shows and describes the life and value of bees in the production of honey and beeswax and as nature's agent in cross-pollination.
—Another issue, 35 mm.

The red-winged blackbird (Motion picture) Coronet, 1946.
11 min., ed., color, 16 mm.
With teacher's guide.
Summary: Traces the life story of the red-winged blackbird, from an egg small enough to hatch in a teaspoon to the adult bird with the distinctive shoulder patch. Describes its rapid development, seasonal habits, and seasonal migration. For primary, intermediate, and high school grades and adult groups.

Reproduction among mammals (Motion picture) Epi Picture Consultants (later name Encyclopaedia Britannica Films) 1937.
11 min., ed., b&w, 16 mm.
With teacher's guide.
Summary: Shows examples of the five types of reptiles that regulate on earth today—lizards, turtles, crocodilians, snakes, and the New Zealand tuatara, which provides an important link between the reptiles of today and the monsters which flourished in the Mesozoic era. Discusses the basic characteristics of reptiles, the distinguishing features of different species and their role in maintaining the balance of nature.

Reptiles (Motion picture) Encyclopaedia Britannica Films, 1955.
14 min., ed., color, 16 mm.
Kodachrome.
With film guide.
Summary: Shows examples of the five types of reptiles that regulate on earth today—lizards, turtles, crocodilians, snakes, and the New Zealand tuatara, which provides an important link between the reptiles of today and the monsters which flourished in the Mesozoic era. Discusses the basic characteristics of reptiles, the distinguishing features of different species and their role in maintaining the balance of nature.

Reptiles are interesting (Motion picture) Film Associates of California, 1954.
19 min., ed., color, 16 mm.
Eastman color.
With teacher's study guide.
Summary: Presents a survey of five groups of living reptiles, illustrating their common characteristics and the differences that distinguish one group from the other. Includes crocodiles, turtles, lizards, snakes, and a monitor.
—Another issue, b&w.

Rhythm on the reef (Motion picture) Universal Pictures Co., 1952.
9 min., ed., b&w, 35 mm. (Variety view)
A Universal-International picture.
Summary: Underwater photography of fish, coral, a turtle, and a shark.

Rikki, the baby monkey (Motion picture) Encyclopaedia Britannica Films, 1949.
11 min., ed., b&w, 16 mm. (Primary science)
With teacher's guide.
Summary: Shows the life of a baby Rhesus monkey in five sequences: Rikki and his family, Rikki has breakfast, Rikki finds a playmate, Rikki has an adventure, Rikki returns home.

ZOOLOGY

Robin Redbreast (Motion picture) Epi Classroom Films (later name Encyclopaedia Britannica Films) 1933.
11 min., ed., b&w, 16 mm. (Primary science)
With teacher's guide.
Summary: Shows the characteristics and habits of a robin family, following Father and Mother Robin as they build the nest and share the duty of incubating the eggs. Portrays the development of the young robins from the time of hatching until they are able to leave the nest and care for themselves.

The ruby-throated hummingbird (Motion picture) Coronet, 1942.
8 min., ed., color, 16 mm.
With teacher's guide.
Summary: Presents the life of the ruby-throated hummingbird. Shows the home and the most characteristic activities of these diminutive birds. For primary, intermediate, and high school grades and adult groups.

Salt water wonderland (Motion picture) Hawley-Lord. Released by Sterling Films, 1947.
11 min., ed., color, 16 mm.
Summary: Shows underwater life—live coral, unborn octopuses, sharks, porpoises, murex, sea, and other varieties of tropical sea life. Photographed at Marine Station, St. Augustine, Fla.
—Another issue, b&w.

Sanctuary of the seals (Motion picture) 80th Century-Fox Film Corp., 1940. Released for educational purposes by Teaching Film Custodians, 1941.
9 min., ed., b&w, 16 mm. (Adventures of a news cameraman series)
Kodachrome.
Summary: Presents a study of the seals on the Pribilof Islands in the Bering Sea. Shows the breeding habits of the seals, the education of baby seals on land and in water, and the migration of seals. Discusses commercial hunting and conservation of seals.

The sea (Motion picture) Educational Pictures, 1932. Released for educational purposes by Teaching Film Custodians, 1939.
10 min., ed., b&w, 16 mm. (Battle for life series)
Summary: Underwater photographs of marine life. Shows marine worms, crabs, sea anemones, sea urchins, barnacles, and an octopus.

Sea shell animals (Motion picture) Film Associates of California, 1955.
10 min., ed., color, 16 mm.
Eastman color.
With teacher's study guide.
Summary: Introduces shelled animals and explains that the two major groups of mollusks are the bivalves and the nautilus. Shows scenes of the living animals and illustrates how they move and feed. Suggests that collecting shells can be an interesting hobby.
—Another issue, b&w.

The seashore (Motion picture) Arthur Barr Productions, 1948.
11 min., ed., color, 16 mm.
Kodachrome.
With guide.
Summary: A visit to the seashore, showing typical birds, seashells, seaweeds, and plants and animals of the tide pools.
—Another issue, b&w.

ZOOLOGY

The wanderer; or, Monarch butterfly (Motion picture) Australian Instructional Films. Released in the U. S. by Library Films, 1953.

6 min., sd., b&w, 16 mm. (Wild life)
Summary: Describes the complete life cycle of the monarch butterfly. Includes animated diagrams and live photography.

Water birds (Motion picture) Encyclopedia Britannica Films, 1945.

10 min., sd., color, 16 mm.
With teacher's guide.
Summary: Studies of the curlew, mallard duck, Canada goose, and brown pelican. Examines briefly the features, activities, and habits of the breeding and winter avian. Emphasizes distinctive characteristics of each bird, its habits, environment, adaptiveness, and care of young. Animated movie traces the migration of the Canada goose, and close-up photography reveals the hatching and development of young pelicans.

Waterfowl in action (Motion picture) Audio-Visual Education Service, University of Minnesota. Made and released by University of Minnesota, 1950.

10 min., sd., color, 16 mm.
Summary: Shows migrating water fowl as they stop to feed and rest in the marshes near Wabasha, Minn. Portrays the Franklin gull, mallard, spoon bill, green, and blue-winged teal, diving ducks, blue heron, and roseate spoonbills. Shows how waterfowl adapt life to survive in marsh conditions. For junior high school.

Waterfowl in the spring (Motion picture) Minneapolis-Moline Co., 1953.

10 min., sd., color, 16 mm.
Summary: Presents close-ups of many North American ducks, including the mallard, the golden eye, green-winged teal, and blue-winged teal, a drake mallard, and a pintail. Depicts a female mallard and a female pintail at their nests, as well as newly hatched ducklings. Shows groups of ducks of blue, green, and Canadian geese, whistling swans, pelicans, and western grebes, and marsh hawks.

We explore the beach (Motion picture) Coronet Instructional Films, 1953.

11 min., sd., color, 16 mm.
With study guide.
Summary: A young boy and girl explore the beach. They pick up seashells, observe the insects and small water animals along the shore, watch the seagulls feed, see the life come in, find a sandcastle, and look through a microscope at a large freighter.

Western grebe (Motion picture) U. S. Fish and Wildlife Service, 1949.

13 min., sd., color, 16 mm.
Summary: The Western grebe in its habitat on the prairie sloughs. Includes the courtship dance in which the birds seem to run on top of the water.

White splendor (Motion picture) Thomas Craven Films Corp. Released by Picture Films Corp., 1954.

11 min., sd., color, 16 mm. (The world around us, no. 6)
With study guide.
Summary: Presents the story of the life of the egret and what has been done to protect it from extinction through laws, sanctuary, etc.

Who's who at the Bronx Zoo (Motion picture) Emerson York Studio; made 1947. Released by Sterling Films, 1950.

10 min., sd., b&w, 16 mm.
Summary: A young girl and her younger brother take a walk in the zoo, where they discover an adult and baby jack rabbit, a wild female burro and her young one, a lizard, a horned lizard, a chuck-will's pocket mouse, and a desert tortoise.

Wild fowl in slow motion (Motion picture) Hawley-Lord. Released by Sterling Films, 1947.

10 min., sd., color, 16 mm.
Summary: Presents slow-motion camera studies of water fowl landing, taking off, and in flight.

Wild life of the desert (Motion picture) Allen and Allen Productions. Released by Dailey Films, 1949.

10 min., sd., b&w, 16 mm.
With study guide.
Summary: Presents a documentary record of life on the desert. Features the desert mouse, badger, chipmunk, striped and spotted skunk, cottontail, side-winder, rattlesnake, and other animals and on the desert. Shows how nature adapts life to survive in desert conditions. For junior high school.

Wild wings (Motion picture) Michigan Dept. of Conservation, 1946.

22 min., sd., color, 16 mm.
Summary: Shows fifty-six species of Michigan birds in their biological order, and describes their nests and habits.

Wildlife and the human touch (Motion picture) U. S. Dept. of Agriculture, 1952.

10 min., sd., color, 16 mm.
Summary: Pictures characteristic forest animals in their native habitat in the National Forests, and explains what the U. S. Forest Service is doing to protect the animals and their habitat.

Wildlife of the Aleutian Islands (Motion picture) U. S. Fish and Wildlife Service, 1949.

15 min., sd., color, 16 mm.
Summary: Sea lion, sea otter, and colonies of sea birds living on the Aleutian Islands.

Wonders in a country stream (Motion picture) Churchill-Wexler Film Productions, 1950.

10 min., sd., color, 16 mm.
With teacher's guide.
Summary: Uses close-up photography to show a boy and girl discovering a baby turtle, frog and pollywag, newt, catfish, minnow, and water striders. For primary and elementary grades.

Wonders in the desert (Motion picture) Churchill-Wexler Film Productions, 1953.

10 min., sd., color, 16 mm.
With teacher's guide.
Summary: A young girl and her younger brother take a walk in the desert, where they discover an adult and baby jack rabbit, a wild female burro and her young one, a lizard, a horned lizard, a chuck-will's pocket mouse, and a desert tortoise.

Wonders in your own back yard (Motion picture) Churchill-Wexler Film Productions, 1949.

10 min., sd., color, 16 mm.
With teacher's guide.
Summary: Shows a boy and girl finding a worm, spider, millipede, new frog, and snail in their back yard. For elementary grades, high school and adult groups.

Wonders of the sea (Motion picture) 20th Century-Fox Film Corp., 1941. Released for educational purposes by Teaching Film Custodians, 1949.

10 min., sd., b&w, 16 mm. (Adventures of a news cameraman series)
Summary: Describes marine life of the Great Barrier Reef in Australia. Shows also techniques of a deep sea diver exploring the depths with scientific equipment.

The woodcock (Motion picture) U. S. Fish and Wildlife Service, 1953.

14 min., sd., color, 16 mm.
Summary: Explains the conservation program of management and utilization of the woodcock, one of the game birds common to the eastern United States.

World of water (Motion picture) McGraw-Hill Book Company, 1952.

10 min., sd., b&w, 16 mm.
Summary: Tropical fish outstanding for oddity, beauty or spectacular quality, in aquarium of Bronx Zoo, characteristics and native habitats.

Worms—the Annelida: leeches, earthworms, and sea worms (Motion picture) Encyclopedia Britannica Films, 1955.

13 min., sd., color, 16 mm.
With film guide.
Summary: Presents a study of the four classes of annelid worms showing their structure, distinguishing characteristics, behavior, and habitats. Shows the various ways in which annelids move, breathe, gather food, and reproduce. Explains how the earthworm contributes to the conservation of the soil.

Younger generation (Motion picture) McGraw-Hill Book Company, 1952.

10 min., sd., b&w, 16 mm.
Summary: Young animals in Bronx Zoo. Feeding habits, and notice of growing animals.

SCIENCE—Miscellaneous

Zoo (Motion picture) Encyclopedia Britannica Films, 1940.

11 min., sd., color, 16 mm.
With film guide.
Summary: A visit to the Chicago Zoological Park, showing some of the animals found there, their characteristic actions, their multiple collection, and their feeding habits. For primary and intermediate grades.

Zoo babies (Motion picture) Coronet Instructional Films, 1955.

12 min., sd., color, 16 mm. (Observing things about us)
With study guide.
Summary: In their study of animals in the zoo, a class of primary children observe the relationship of young animals to their parents. Shows the typical characteristics and habits of baby monkeys, guinea pigs, peacocks, alligators, bears, and other baby animals. Photographed in the Chicago Zoological Park at Brookfield, Ill.

Zoo families (Motion picture) Film Associates of California, 1954.

10 min., sd., color, 16 mm.
Summary: Explains how nature protects itself from the heat of the sun. Shows the cooperation of the Zoological Society of San Diego.
With teacher's study guide.
Summary: Youngsters learn the mother to visit the animal families at the zoo. They see lion, monkey, kangaroo, hippopotamus, chimpanzee, and jungle hen, and notice the care the animal mothers take of their babies.

SCIENCE—Miscellaneous

Birth of the soil (Motion picture) Conservation Foundation in association with the New York Zoological Society. Released by Encyclopedia Britannica Films, 1948.

10 min., sd., color, 16 mm. (Living earth series, pt. 1)
With film guide.
Summary: Explains how nature protects itself from the heat of the sun. Shows the cooperation of the Zoological Society of San Diego. Shows the importance of the soil in the life of the earth and how they are used for man's benefit, and the importance of the thin layer of top soil which sustains plant and animal life.

Earth (Motion picture) John F. Criswell. Released by Gateway Productions, 1950.

10 min., sd., b&w, 16 mm. (The primary science series)
Summary: Children, called Rangers, become interested in what lies under the ground while excavating for a new club house. They learn about the various resources beneath the surface of the earth and how they are used for man's benefit, and the importance of the thin layer of top soil which sustains plant and animal life.

Reasons for the seasons (Motion picture) Minneapolis-Moline Co., 1949.

45 min., sd., color, 16 mm.
Summary: Through animation tells the story of the seasons, why they occur, and how they affect the lives of all living things on earth. Stresses the importance of the seasons to the farmer, and shows how the farmer uses modern machinery to cope more effectively with the demands made by the seasons on him and his work.

SCIENCE—Miscellaneous

Scientific method (*Motion picture*) Encyclopedia Britannica Films, 1954.

12 min., sd., color, 16 mm.

With teacher's guide.

Summary: Explains the elements of the scientific method of problem solving, and the way this method is applied by scientists. Discusses the value of scientific thinking in dealing with problems of everyday life. Features the discovery of penicillin by Sir Alexander Fleming and the work of Louis Pasteur as illustrations of contributions of scientific thinking to modern knowledge.

Another issue. b&w.

The seasons of the year (*Motion picture*) Coronet, 1955.

11 min., sd., b&w, 16 mm.

Summary: Describes how the four seasons effect changes in the weather, in human activities, and in plant and animal life.

What is science? (*Motion picture*) Coronet, 1947.

11 min., sd., color, 16 mm.

With teacher's guide.

Summary: Explains that science is knowledge of the world about us. Two children, curious about common phenomena, conduct simple experiments and find their answers by using the scientific method: by observing, experimenting, drawing conclusions, and testing the results. For intermediate grade and high school.

Another issue. b&w.

FILMSTRIPS

NOTE ON FILMSTRIPS

The following alphabetical listing of filmstrips described in this catalog is also a guide to descriptive, availability, and source information for each entry. When in series, the series title is listed first and the titles of individual filmstrips follow. Entries are numbered for convenience of reference.

Descriptive data for each entry may be found under DESCRIPTIONS OF FILMSTRIPS, pages 263 to 335, by searching within the assigned category.

SOURCES from which the filmstrips may be obtained are indicated by code letters, which correspond to similar codes in the SOURCES section of the catalog, pages 337 to 369.

Terms and special conditions of availability are indicated by symbols. Filmstrips listed are usually available for purchase only, unless otherwise stated; special conditions of availability are indicated as follows:

Rental - * Related Motion Picture - /
Loan - ** Language Version - //
Television - TV

Since in many cases important details of availability are explained in the SOURCES section, persons interested should study that section carefully.

It should be emphasized that correspondence regarding filmstrips listed should be directed to the appropriate organization or individual listed in the SOURCES section, and not to the U. S. Information Agency.

INDEX OF FILMSTRIPS

(Listed alphabetically by title, with category, source, and availability information)

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24. ANIMALS OF THE WORLD SERIES — REPTILES (ZOOLOGY): Crocodilians and Turtles Lizards of the World Nonpoisonous Snakes of the U. S. Poisonous Snakes of the U. S. Snakes Outside of the U. S.	SVE	31. AUTOMOTIVE CIRCUITS (PHYSICS)	SUNEC
25. ANIMALS THAT HELP PEOPLE TRAVEL (ZOOLOGY)	MCG-H	32. AUTOMOTIVE MECHANICS SERIES (PHYSICS)	MCG-H
26. AQUATIC PLANTS ASSOCIATED WITH "ANOPHELES" BREEDING AREAS (MEDICINE - Sanitation)	CDC **	- B -	
27. ARITHMETICAL EXPERIENCES FOR THE THIRD YEAR SERIES (MATHEMATICS - Arithmetic): Experiences with Comparisons Experiences with Counting	EYE GATE	33. BANDAGING (PARTS 1 & 11) (MEDICINE - First Aid)	USARMY-P **
		34. BASIC BIOLOGY SERIES (BIOLOGY)	SVE
		35. BASIC BIRD STUDY SERIES (ZOOLOGY): Adaptations of Birds Birds' Nests Helping the Birds How Birds Serve Man The Migration of Birds The Structure of Birds	JAMH
		36. BASIC ELECTRICITY SERIES (PHYSICS - Electricity): Alternating Current Applications, Part 1 Applications, Part 2 Current Electricity The Electric Cell Electric Meters Electric Motors Electromagnetism The Generator Magnetism Static Electricity The Storage Battery	JAMH
		37. BASIC NATURE STUDY SERIES (ZOOLOGY)	SVE

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
38. BASIC NUMBERS SPEED-1-O-STRIP SERIES (MATHEMATICS - Arithmetic): Addition Combinations Division Combinations Multiplication Combinations Number Recognition: Digits Subtraction Combinations	SVE	Lands of Few People	USARMY-P **
39. BASIC PRINCIPLES OF THE ANALYTICAL BALANCE (PHYSICS)	CDC-UWF ** /	48. CARE AND TREATMENT OF FACE AND JAW WOUNDS (FS 8-56) (MEDICINE - First Aid)	OE /
40. BASIC SHOP SAFETY SERIES (MEDICINE - First Aid)	JAMH	49. CARE OF THE CARDIAC PATIENT (MEDICINE - Nursing)	MCG-H
41. BASIC WEATHER SERIES (PHYSICS - Meteorology)	SVE	50. CHANGING ORES INTO METALS (GEOLOGY - Metallurgy)	POP
42. BEGINNING NATURE STUDY SERIES (BIOLOGY)	SVE	51. CHANGING SEASONS (ASTRONOMY)	MCG-H
43. BEHAVIOR OF ANIMALS AND PLANTS SERIES (BOTANY): Behavior of Plants (MEDICINE - Psychology): Learned Behavior (ZOOLOGY): Animal Behavior Behavior of Simple Animals How Living Things Respond	CurrF	52. CHEMISTRY (SETS 1, 2, 3) (CHEMISTRY)	MCG-H /
44. BIRDS, HOW THEY LIVE AND HELP US SERIES (ZOOLOGY): Birds of Our Ponds and Marshes Birds of the Forest and its Borders Birds of the Ocean, Its Beaches and Salt Marshes Birds That Live Near People The Migration of Birds	SVE	53. CHILD DEVELOPMENT SERIES (MEDICINE - Psychology): Hereditry and Pre-natal Development Principles of Development Social Development (et al.)	CDC **
45. BIRDS: THEIR VALUE TO AGRICULTURE (ZOOLOGY)	USDA	54. CHILLS AND FEVER: WHY? (MEDICINE - Tropical)	CDC **
46. BRIDGING THE DECADES SERIES (MATHEMATICS - Arithmetic) Review, Work and Play With Number 11 - THRU - Work and Play With Number 20 Work and Play With Problems Work and Play With More Problems - C -	EYE GATE	55. CLOSING IN (MEDICINE - Sanitation)	CDC-UWF **
47. CANADA AND THE FAR NORTH SERIES (GEOGRAPHY): Alaska - the Land and Its People	SVE	56. COLLECTION OF BLOOD SPECIMENS FOR SEROLOGICAL EXAMINATION (MEDICINE - Lab. Procedures)	CDC-UWF **
		57. COLLECTION OF FECAL SPECIMENS (MEDICINE - Lab. Procedures)	CDC-UWF **
		58. COLLECTION OF SPECIMENS FROM THE EYE, NOSE, AND THROAT (MEDICINE - Lab. Procedures)	CDC-UWF **
		59. COLLECTION OF SPUTUM SPECIMENS (MEDICINE - Lab. Procedures)	CDC-UWF **
		60. COLOR OF MAN (MEDICINE - Physiology)	USC /
		61. COMMUNITY FLY CONTROL SERIES (MEDICINE - Sanitation): Biology of Domestic Flies Fly Density Surveys by the Grill Method	CDC **
		62. CONSTELLATIONS (ASTRONOMY)	MCG-H
		63. CONSTRUCTING A FARM POND (MEDICINE - Sanitation)	CDC-UWF **
		64. CONSTRUCTING A SANITARY PIT PRIVY (MEDICINE - Sanitation)	CDC-UWF **
		65. CONTROL OF HEMORRHAGE: FACE AND JAW WOUNDS (MEDICINE - First Aid)	USARMY-P **
		66. COUNTRY FIELD TRIPS SERIES (BIOLOGY):	SVE

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
Plants and Animals in the Spring Summer on the Farm A Trip to the Autumn Woods Winter in the Country		79. DIGGING FOR THE EARTH'S TREASURES (GEOLOGY - Mining)	McG-H
- D -		80. DINOSAURS (BIOLOGY)	SVE
67. DATA AND DECISION: USING ELECTRONIC COMPUTERS IN BUSINESS (ENGINEERING)	AMANA	81. DISEASES OF THE MOUTH (DENTISTRY)	USARMY-P **
68. DAVID AND HIS FAMILY (MEDICINE - Psychology)	YAF	82. DISINFECTION OF CLINICAL THERMOMETERS. PART I: ORAL THERMOMETERS (MEDICINE - Hospitals)	CDC-UWF **
69. DAVID'S BAD DAY (MEDICINE - Psychology)	YAF	- E -	
70. DECIMALS AND PERCENTAGE SERIES (MATHEMATICS - Arithmetic): Adding and Subtracting Decimals Comparing Decimals Dividing Decimals Introduction to Percentages Multiplying Decimals Problems in Percentage Using Percentage	CurrF	83. THE EARTH AND ITS WONDERS SERIES (GEOLOGY): The Story of Ice and Glaciers The Story of Mountains The Story of Underground Water The Story of Volcanoes The Story of the Air The Story of the Rivers	EBF
71. DEFLECTION OUTPUT CIRCUITS. (PHYSICS - Electricity)	McG-H /	84. THE EARTH AND THE UNIVERSE SERIES (ASTRONOMY)	SVE
72. DENTAL HEALTH SERIES (DENTISTRY): Dental Health for Young America A Toothsome Tale Your Teeth and Your Health	SVE	85. EARTH, HOME OF MAN SERIES (PHYSICS - Meteorology): Climate and Weather (GEOGRAPHY): Coastal Lands Islands Mountains The Oceans The Surface of the Land This Earth of Ours Uplands and Plateaus Where Man Lives	EYEGATE
73. DESERT ANIMAL LIFE (ZOOLOGY)	DOWLING TV	86. EDUCATIONAL PSYCHOLOGY SERIES (MEDICINE - Psychology): Importance of Goals Individual Differences Motivating the Class Problem of Pupil Adjustment: Part I: The Drop-out Part II: The Stay-in	McG-H /
74. DESERT PLANT LIFE (BOTANY)	DOWLING TV	87. ELECTRICAL WORK SERIES: MOTOR CONTROL, NO. 1 (PHYSICS - Electricity): Direct Current Controllers	OE * /
75. DESERT ROCKS AND MINERALS (GEOLOGY)	DOWLING TV	88. ELECTRICITY, MECHANICS, AND THE ATMOSPHERE SERIES (PHYSICS)	SVE
76. DIAGNOSIS OF ENTEROBIASIS (MEDICINE - Tropical)	CDC-UWF **	89. ELEMENTARY SCIENCE SERIES (PHYSICS)	INSTF * /
77. DIAGNOSIS OF PRIMARY SYPHILIS (MEDICINE - Communicable Diseases)	CDC-UWF **		
78. THE DIFFICULT ONES SERIES (MEDICINE - Psychiatry): Part I: Psychiatric Problems Met by Contact Representative Part II: Difficult Ones' Effect on Contact Representative Part III: Getting Help for Veterans With Emotional Problems	VETS **		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
90. ELEMENTARY SCIENCE SERIES SET NO. 1 (ASTRONOMY): Day and Night (PHYSICS): Magnets (PHYSICS - Electricity): Electricity (PHYSICS - Meteorology): What Makes Rain	YAF /	97. EPIDEMIOLOGY OF BRUCELLOSIS (MEDICINE - Veterinary)	CDC-UWF **
SET NO. 2 (ASTRONOMY): The Moon, Our Earth's Nearest Neighbor The Seasons The Solar System What Causes the Seasons (PHYSICS): Electromagnets Light Simple Machines		98. EPIZOOLOGY OF ANTHRAX (MEDICINE - Veterinary)	CDC-UWF **
SET NO. 3 (PHYSICS): Air and its Properties All Matter Has Three Forms Frictional Electricity The Thermometer Water and Its Work Why Things Float		99. EQUIPMENT FOR HAND SPRAYING OF DDT (MEDICINE - Sanitation)	CDC-UWF **
SET NO. 4 (GEOLOGY): Changing Surface of Our Earth (PHYSICS): Friction at Work Gravity How Heat is Transferred (PHYSICS - Meteorology): Climate Weather		100. ESKIMOS OF ALASKA SERIES (GEOGRAPHY): Hunting and Fishing in Summer Hunting and Fishing in Winter Summer Days Winter Days	CURRF
91. ELEMENTS OF HARDENING (ENGINEERING)	OE /	101. EVALUATING DDT DUSTING IN MURINE TYPHUS CONTROL (MEDICINE - Sanitation)	CDC **
92. ELEMENTS OF SURFACE HARDENING (ENGINEERING)	OE /	102. EXPERIENCES IN LIVING SERIES (MEDICINE - Hygiene)	YAF
93. ELEMENTS OF TEMPERING, NORMALIZING AND ANEALING (ENGINEERING)	OE /	103. EXPLORING THROUGH MAPS SERIES (GEOGRAPHY - Maps)	POP
94. THE EMBRYOLOGY OF THE EYE (MEDICINE - Ophthalmology)	AAAO /	104. EXPLORING TV (PHYSICS)	McG-H
95. ENGINEERING DRAWING SERIES (ENGINEERING)	McG-H /	105. EXTRA-ORAL TRACTION APPLIANCE: WOODEN TONGUE DEPRESSOR TRACTION APPLIANCE: METAL COAT HANGER TRACTION APPLIANCE (DENTISTRY)	USARMY-P **
96. ENGINEERING SERIES (ENGINEERING): Measurement With Light Waves Principles of Gearing: An Introduction Principles of Lubrication The Slide Rule, Proportion, Percentage, Squares and Square Roots	OE /	106. EYE AND THE CAMERA (PHYSICS)	POP
		- F -	
		107. FACE AND JAW WOUNDS SERIES (MEDICINE - Surgery): Clearing of Air Passage (S. AL)	USARMY-P **
		108. FALCIPARUM MALARIA (MEDICINE - Tropical)	CDC **
		109. THE FIGHT AGAINST RABIES (MEDICINE - Veterinary)	CDC-UWF ** /
		110. FIGHTING DISEASE SERIES (MEDICINE - Physiology): Body Defenses Against Invasion by Disease The Germ Invaders Helping the Body Defenses Against Disease How Chemicals and Antibiotics Fight Disease Invasion by Disease	POP
		111. FILARIASIS (MEDICINE - Tropical)	CDC **

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
112. FIRST AID SERIES (MEDICINE - First Aid)	SVE	118. FOUNDATIONS OF CHEMISTRY (CHEMISTRY)	SVE
113. FIRST AID TRAINING SERIES (MEDICINE - First Aid): Artificial Respiration The Body (Parts 1 & 2) Burns Common Emergencies Dressings and Bandages (Parts 1 & 2) Fractures: Splints Fractures: Treatment Fractures: Types Minor Injuries Moving the Injured: Carrying Moving the Injured: Stretchers Poison The Purpose of First Aid Shock Unconsciousness Wounds (Parts 1 & 2)	JamH	119. FRACTION SERIES (MATHEMATICS - Arithmetic) 120. FRACTIONS SERIES (MATHEMATICS - Arithmetic): Adding Fractions Common Denominators Fractions of a Group How Large is a Fraction? Mixed Numbers Multiplying Fractions by Fractions Using Mixed Numbers What is a Fraction? Writing Fractions	SVE CurrF
114. FIRST EXPERIMENTS ABOUT WEATHER SERIES (PHYSICS - Meteorology): How Does Water Get Into the Air? What is an Experiment? What is Wind? What Makes Things Dry Faster? Where do Clouds Come From?	JamH	121. FUEL LEVEL GAGES (ENGINEERING) 122. FUN FOR CHILDREN SERIES (ZOOLOGY): The Children's Zoo (et al.)	USAF-UWF CurrF
115. FLUIDS, A UNIT OF AIR AGE (PHYSICS) SERIES (PHYSICS): Atmospheric Pressure Barometers and the Weather Bernoulli's Principle Buoyancy and Archimedes Principle Density and Specific Gravity: Flotation Exploring the Atmosphere: Streamline Flow Gas Pressure Jet Pumps, Siphons, Rotating Pumps Liquid Pressure Measuring Fluid Pressure Reciprocating Pumps Specific Gravity of Solids and Liquids Transmitting Pressure Through Liquids	JamH	123. FUNDAMENTALS OF DETERGENTS (CHEMISTRY) - G - 124. GENERAL INSPECTION AND CONTROL ACTIVITIES AT THE AREA LEVEL (MEDICINE - Sanitation) 125. GENERAL PRINCIPLES OF THE PROPELLER (ENGINEERING) 126. GENERAL SCIENCE SERIES (PHYSICS) 127. GENERAL STRUCTURE OF THE HORSE AND MULE (MEDICINE - Veterinary) 128. GOLDEN NATURE GUIDES SERIES (BOTANY): American Trees American Wildflowers (GEOGRAPHY): American Seashores (ZOOLOGY): American Birds Guide American Insects Guide American Mammals American Reptiles and Amphibians	CDC-UWF CDC ** USAF-UWF EBF / USArmy-P YAF
116. FOOD AND NUTRITION SERIES (BIOLOGY): How Food is Digested (et al.)	POP	129. GOOD HEALTH AND YOU SERIES (MEDICINE - Hygiene): Community Helpers for Health Health and Exercise Health and Eyes Health and Teeth Right Clothes Help Health Why Be Healthy? (et al.)	EyeGate
117. FOREIGN BODY LOCALIZATION (ROENTGENOSCOPIC - FS-8-91) Part 1: Practical Application (MEDICINE - Surgery)	USArmy-P		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
130. GOOD HEALTH SERIES (MEDICINE - Bacteriology): Bacteria - Good and Bad (MEDICINE - Hygiene): Pesky - The Cold Bug You and Your Clothes You and Your Food Your Posture - Good or Bad (MEDICINE - Parasitology): Insect Pests and Disease	YAF	138. HEALTH EDUCATION SERIES (BIOLOGY): Human Reproduction (MEDICINE - Hygiene): The Nose, Throat, and Ears (MEDICINE - Psychology): Emotional Health (et al.)	McG-H /
131. GREAT NAMES IN BIOLOGY (BIOLOGY): Antony van Leeuwenhoek Carolus Linnaeus Charles Darwin Gregor Mendel Louis Pasteur William Harvey	EBF	139. HEALTH HEROES SERIES (MEDICINE - Bacteriology): Robert Koch and the Discovery of the Tubercle Bacillus (MEDICINE - Tropical): Walter Reed and the Conquest of Yellow Fever (et al.)	NETL **
132. GROOMING FOR GIRLS SERIES (MEDICINE - Hygiene): You and Your Grooming Your Clothing Your Face Your Figure Your Hair Your Hands and Feet	YAF	140. HEALTH STORIES SERIES (MEDICINE - Hygiene): Avoiding Infection: Treat- ing a Cold Checking Your Health Health Habits Health Helpers Keeping Neat and Clean Proper Food	EBF
133. GROWING THINGS SERIES (BIOLOGY): Birds Grow Butterflies Grow Plants Grow Rabbits Grow Trees Grow We Grow - H -	JamH	141. HEAT, A UNIT OF AIR AGE PHYSICS SERIES (PHYSICS): Fusion Gas Expansion Heat Expansion Heat Transfer Humidity Internal Combustion Engines Measurement of Heat Putting Heat to Work Refrigeration Temperature Vaporization	JamH
134. HAND SPRAYING OF DDT (MEDICINE - Sanitation)	CDC-UWF	142. HIGH-TEMPERATURE SHORT-TIME PASTEURIZATION: EQUIPMENT AND CONTROLS (MEDICINE - Sanitation)	CDC **
135. HEALTH ADVENTURES SERIES (BIOLOGY): Bow Your Ears Work Sleep and Rest Your Bones and Muscles Your Eyes at Work Your Food and Digestion Your Heart and Lungs Your Nose and Throat Your Skin and Its Care Your Teeth and Their Care	JamH	143. THE HISTOPATHOLOGY OF HUMAN FUNGUS INFECTIONS SERIES (MEDICINE - Tropical): Subcutaneous Infections Superficial Infections Systemic Infections	CDC **
136. HEALTH AND GROWTH SERIES (MEDICINE - Hygiene)	McG-H	144. HISTORY OF MEASURES SERIES (MATHEMATICS - Measurement): History of Area Measures History of Linear Measures History of Our Calendar History of Our Number System History of Telling Time History of Weight and Volume Measures	YAF
137. HEALTH AND SAFETY SERIES (MEDICINE - Hygiene): Controlling Germs Food for Health Keeping Ourselves Healthy (et al.)	CurrF		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
145. HOOKWORM DISEASE AND HOOKWORM INFECTION (MEDICINE - Parasitology)	CDC **	162. IDENTIFICATION OF SOME COMMON FLEAS (MEDICINE - Parasitology)	CDC **
146. HORIZONS OF SYPHILIS (MEDICINE - Communicable Diseases)	CDC **	163. IDENTIFICATION OF SOME MOSQUITOES OF PUBLIC HEALTH IMPORTANCE (MEDICINE - Parasitology)	CDC **
147. THE HOSPITAL OF TOMORROW (MEDICINE - Hospitals)	CDC **	164. IDENTIFICATION OF U.S. GENERA OF ADULT FEMALE MOSQUITOES (MEDICINE - Parasitology)	CDC **
148. HOW ANIMALS GET THEIR FOOD SERIES (ZOOLOGY): How Amphibians Get Their Food How Birds Get Their Food How Fish Get Their Food How Insects Get Their Food How Mammals Get Their Food How Reptiles Get Their Food	CurrF	165. IDENTIFICATION OF U.S. GENERA OF ADULT TICKS (MEDICINE - Parasitology)	CDC **
149. HOW BIG A HANDICAP? (MEDICINE - Rehabilitation)	PAC	166. IDENTIFICATION OF U.S. GENERA OF MOSQUITO LARVAE (MEDICINE - Parasitology)	CDC **
150. HOW COLOR TELEVISION WORKS (PHYSICS)	MCG-H	167. IDENTIFICATION OF U.S. SPECIES OF ANOPHELES LARVAE (MEDICINE - Parasitology)	CDC-UWF
151. HOW HEAT TRAVELS (PHYSICS)	POP	168. IMMOBILIZATION OF FRACTURES: INTRA MAXILLARY WIRING; INTERMAXILLARY ELASTIC TRACTION (DENTISTRY)	USArmy-P
152. HOW TELEVISION WORKS (PHYSICS)	POP	169. IN SELF DEFENSE (MEDICINE - Sanitation)	CDC **
153. HOW TO TELL TIME Part 1: The Hour and the Half Hour Part 11: The Minutes (MATHEMATICS - Measurement)	POP	170. INDUSTRIAL ELECTRONICS (ENGINEERING)	GE **
154. HOW THE HEART WORKS (MEDICINE - Physiology)	POP	171. INFECTIOUS HAZARDS OF BACTERIOLOGICAL TECHNIQUES SERIES (MEDICINE - Hospitals): The High Speed Blender The Hypodermic Syringe The Inoculating Needle The Pipette The Laminarizer	CDC-UWF
155. HOW WE MEASURE HEAT (PHYSICS)	MCG-H	172. INTEGRAL CALCULUS SERIES (MATHEMATICS - calculus)	SVE
156. HOW WE PRODUCE SOUND AND SPEECH (BIOLOGY)	POP	173. INTERNATIONAL DATE LINE (ASTRONOMY)	POP
157. HUMAN BIOLOGY SERIES (BIOLOGY)	SVE	174. INTRA AND EXTRA ORAL SPLINTS: SPLINTS APPLIED TO THE TEETH (ES 8-34) (DENTISTRY)	USArmy-P
158. THE HUMAN BODY SERIES (BIOLOGY)	EBF /	175. INTRODUCTION TO AIRPLANE INSTRUMENTS (PHYSICS)	USAF-UWF
- I -		176. INTRODUCTION TO FRACTIONS SERIES (MATHEMATICS - Arithmetic): Fractional Parts of a whole: 1/2, 1/3, 1/4 Fractional Parts of a whole and Groups: 1/5, 1/6, 1/8 Fractional Parts of Groups: 1/2, 1/3, 1/4	JWH
159. IDENTIFICATION OF FEMALE ANOPHELES OF THE UNITED STATES (MEDICINE - Parasitology)	CDC **		
160. IDENTIFICATION OF MALARIA IN THICK BLOOD FILMS (MEDICINE - Parasitology)	CDC **		
161. IDENTIFICATION OF MALARIA PARASITES IN THIN BLOOD FILMS (MEDICINE - Parasitology)	CDC **		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
Non-Unit Fractions of a whole and Groups Comparing Fractions		186. LABORATORY DIAGNOSIS OF TINEA CAPITIS IN CHILDREN: MICROSPORUM INFECTIONS (MEDICINE - Lab. Procedures)	CDC-UWF
177. INTRODUCTION TO THE GLOBE SERIES (GEOGRAPHY): Continents and Oceans Hot and Cold Places Night and Day North, South, East and West Up and Down	JWH	187. LABORATORY DIAGNOSIS OF TRICHOPHYTON INFECTIONS SERIES (MEDICINE - Lab. Procedures): Part 1: Ectothrix infections of the Beard and Scalp Part 2: Endothrix infections of the Scalp	CDC **
178. AN INTRODUCTION TO VECTORS: COPLANAR CONCURRENT FORCES (ENGINEERING)	OE /	188. LABORATORY IDENTIFICATION OF SYSTEMIC FUNGI SERIES (MEDICINE - Lab. Procedures): Coccidioides immitis (SL AL.)	CDC **
179. INTRODUCTORY PHYSIOLOGY SERIES (MEDICINE - Physiology): The Bones and Muscles The Circulatory System The Digestive System The Ears The Eyes The Nervous System The Respiratory System The Skin, Hair and Nails The Teeth	YAF	189. LET'S LOOK AT MAPS (GEOGRAPHY - Maps)	VaDepte /
180. ISOLATION AND IDENTIFICATION OF SALMONELLA AND SHIGELLA CULTURE SERIES (MEDICINE - Lab. Procedures): Simplified Serologic Identification of Shigella Cultures (SL AL.) - J -	CDC **	190. THE LIFE CYCLE OF A MALARIA PARASITE (MEDICINE - Parasitology)	CDC **
181. JIMMY BEATS RHEUMATIC FEVER (MEDICINE - nursing)	NETL **	191. LIFE IN DESERT LANDS (GEOGRAPHY)	POP
- K -		192. LIGHT ON MATHEMATICS SERIES (MATHEMATICS): Kit 1 - (Arithmetic): Addition and Subtraction Addition and Subtraction of Fractions Five Keys to Math Fractions, Decimals, and Percentage Mathematics and the Pilot Multiplication and Division Multiplication and Division of Fractions Order of Operations Square Root and Cube Root Kit 2 - (Geometry): Addition and Subtraction in Geometry Angular Measurement Construction Multiplication and Division in Geometry Scales and Models Trigonometry Vectors Kit 3 - (Algebra): The Arithmetic of Algebra Equations and Formulas Exponents and Logarithms Positive and Negative Numbers Problem Analysis Ratio and Proportion Kit 4 - (Graphs): Analytic Geometry Graph Uses Plotting Graphs	JWH
182. KEEP YOUR HEAD (MEDICINE - Psychiatry)	ZurAm		
183. KEEPING HEALTHY SERIES (MEDICINE - Hygiene): Care of Hair and Nails Care of the Skin Common Cold Save Those Teeth Sleep for Health - L -	EBF /	193. LOCALIZING TROUBLES (ENGINEERING)	MCG-H /
184. LABORATORY DIAGNOSIS OF RABIES (MEDICINE - Veterinary)	CDC-UWF		
185. THE LABORATORY DIAGNOSIS OF SCHISTOSOMIASIS (MEDICINE - Lab. Procedures)	CDC **		

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
194. THE LONG ADVENTURE (MEDICINE - Communicable Diseases)	NatDA	(ENGINEERING) Auxiliary Views, Part 1 Auxiliary Views, Part 11 (et al.)	JAMH
195. LOOKING AT THE EARTH WE LIVE ON SERIES (GEOGRAPHY): Climate and Plants High and Low Lands Lakes and Rivers Oceans and Coasts Our Land and Its Waters Weather and the Seasons	POP	207. MECHANICS, A UNIT OF AIR AGE PHYSICS SERIES (PHYSICS): Centrifugal Force Energy Force Force and Velocity as Vectors Friction Gravitation Newton's Laws of Motion Power Rotary Motion Simple Machines Uniform Motion Uniformly Accelerated Motion Units of Measurements Work	JAMH
196. LOOKING AT THE STARS (ASTRONOMY) - M -	POP		
197. THE MAGIC CAMERA (BIOLOGY)	WestH **		
198. MAGNETISM (PHYSICS)	GE **	208. MEN WHO HELPED US FIND OUT	EyeGate
199. MAJOR CITIES OF THE UNITED STATES (GEOGRAPHY)	SVE	(ASTRONOMY): Galileo (MEDICINE - Bacteriology): Hideyo Noguchi Louis Pasteur (MEDICINE - Communicable Diseases): Christian Eijkman (MEDICINE - Surgery): Joseph Lister (MEDICINE - Tropical): Walter Reed (PHYSICS): Guglielmo Marconi Madame Curie Michael Faraday	EyeGate
200. MALARIA CONTROL SERIES (MEDICINE - Tropical): Criminal at Large OUT as a Mosquito Larvicide Malaria Staining Blood Films for Malaria Parasite Examination	CDC ** /		
201. MALARIA: HOW TO STOP IT (MEDICINE - Tropical)	CDC **	209. METAMORPHOSIS (ZOOLOGY)	LIFE
202. MANUFACTURING AND MINING SERIES (GEOLOGY - Mining) Coal, Where We Find It and How We Mine It (et al.)	SVE	210. MICRODISSECTION APPLIED TO MOSQUITO IDENTIFICATION (MEDICINE - Lab. Procedures)	CDC-UNF
203. MAP SERIES (GEOGRAPHY - Maps): Economic Geography Maps Outline Maps	YAF	211. THE MIDDLE WEST SERIES (GEOGRAPHY): City People of the Middle West The Cornbelt East and South of the Cornbelt West and North of the Cornbelt	SVE
204. MATHEMATICS SERIES (Set 1; Set 2) (MATHEMATICS)	McG-H	212. MODERN CONTROL OF POULTRY DISEASES (MEDICINE - Veterinary)	ACC-LEDER
205. MATTER AND MOLECULES, A UNIT OF AIR AGE PHYSICS SERIES (PHYSICS): Effects of Molecular Motion Water Molecular Forces in Liquids Molecular Forces in Matter The Structure of Matter Why Study Physics?	JAMH	213. THE MORPHINE SYRETTE (MEDICINE - Nursing)	USArmy-P
206. MECHANICAL DRAWING SERIES	McG-H	214. MOSQUITO TO INSPECTION AND CONTROL (MEDICINE - Sanitation)	CDC **

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
215. MOSQUITO PROBLEMS IN IRRIGATED AREAS (MEDICINE - Sanitation)	CDC **	Biology of Spiders (Black Widow) No. 1 & No. 2 Biology of Spiders (Spider Houses) No. 3 Biology of Spiders (Biological Control) No. 4 Biology of Insects (Protective Modeling and Color) No. 5 Biology of Insects (Active Camouflage) No. 6	EyeGate
216. MUNICIPAL SEWAGE TREATMENT PLANTS SERIES (MEDICINE - Sanitation)	CDC ** /		
217. A MYCOLOGICAL SLIDE CULTURE TECHNIQUE (MEDICINE - Lab. Procedures)	CDC-UNF **	223. THE NORTH CENTRAL STATES, A REGIONAL STUDY. No. 2: THE GEOGRAPHIC BACKGROUND (GEOGRAPHY)	EyeGate
- N -		224. THE NORTHEASTERN UNITED STATES SERIES (GEOGRAPHY): Five Great Cities Living in New England Valley Regions of the Northeast Where East and South Meet	SVE
218. NATIONAL PARKS OF THE UNITED STATES SERIES (GEOGRAPHY)	SVE		
219. NATURE STUDY SERIES (ASTRONOMY): Fun With Stars (BOTANY): Growing New Plants How Plants Help Men (GEOLOGY): The Rocks Around Us (ZOOLOGY): Insect Friends and Enemies What Animals Give Man	POP	225. NURSING SERIES (MEDICINE - Nursing): Care of the New-Born Baby: The Nurse's Role in Instructing the Parents Care of the Patient with Diabetes Mellitus: Complicated Care of the Patient with Diabetes Mellitus: Uncomplicated Radiotherapy: High Dosage Treatment Therapeutic Uses of Heat and Cold: Part I: Administering Hot Applications Therapeutic Uses of Heat and Cold: Part II: Administering Cold Applications (et al.)	OE /
220. NATURE STUDY ILLUSTRATED SERIES: ANIMAL SET (ZOOLOGY): How Animals Get Air How Animals Get Food How Animals Grow Up How Animals Protect Themselves How Animals Reproduce Themselves BIRD AND INSECT SET (ZOOLOGY): Butterflies and Moths Insect Life Histories LITTLE JOURNEYS AND WEATHER SET (BIOLOGY): Life on the Desert (GEOGRAPHY): The Story of Glaciers (PHYSICS - Meteorology): Clouds and Weather	SVE		
221. NATURE STUDY STORIES SERIES (BOTANY): A Walk in the Woods (ZOOLOGY): Animals of the Pond Ann Visits the Zoo Birds of the Zoo Low Tide at the Beach Turtles	CurrF	226. OIL FROM EARTH TO YOU (GEOLOGY)	AmPetrol
222. NATURE'S ENCHANTED WOODLAND SERIES (BIOLOGY):	SVE	227. ON THE FARM WITH TOM AND SUSAN SERIES (ZOOLOGY)	POP
		228. OPTICS, INCLUDING PHASE-CONTRAST, THE METHOD FOR OBSERVATION OF SMALL REFRACTIVE DIFFERENCES IN TRANSPARENT OBJECTS (PHYSICS)	Phase
		229. ORAL HYGIENE: TOOTHBRUSH TECHNIQUE (MEDICINE - Hygiene)	CDC-UNF
		230. THE ORGANS IN HEALTH AND DISEASE SERIES (MEDICINE - Anatomy)	CDC **

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
THE LIVER: PART 1: Normal Histology of the Human Liver THE LUNG: PART 1: Comparative Anatomy and Normal Histology (et al.)		Parallel Lines and Transversals Quadrilaterals Similar Polygons		249. PRIMARY ARITHMETIC SERIES	POP	(GEOLOGY - Mining): How We Get Our Coal (MATHEMATICS - Arithmetic): (PHYSICS - Electricity): How We Get Our Electricity (et al.)	
231. OUR EARTH SERIES	JMH	239. PLANT AND ANIMAL ENVIRONMENT SERIES (BIOLOGY)	SVE	Compound Subtraction A Number Family in Addition The Threes Twos in Division What Numbers Mean Zero, a Place Holder		256. PUTTING ATOMIC ENERGY TO WORK (PHYSICS - Nuclear)	POP
(ASTRONOMY): How We Think Our Earth Came To Be (GEOGRAPHY): Our Earth Is Changing (GEOLOGY): How Rocks Are Formed The Soil (PALEONTOLOGY): The Story of the Earth We Find in the Rocks		240. PLANTS AND ANIMALS SERIES	POP	250. PRIMARY HEALTH SERIES (MEDICINE - Hygiene)	SVE	257. PUTTING LIGHT TO WORK (PHYSICS)	POP
232. OUR HEALTH IN YOUR HANDS	USPHS **	(BIOLOGY): Balance Among Living Things Communities of Living Things A Home for Water Plants and Animals		251. PRIMARY HEALTH SERIES (MEDICINE - Hygiene)	YAF	258. PVA-FIXATIVE TECHNIQUE IN THE DIAGNOSIS OF AMEBIASIS (MEDICINE - Lab. Procedures)	CDC **
(MEDICINE - Sanitation): Germs Take Pot Luck In Hot Water Service With a Smile		241. PLANTS AND GARDENS SERIES	EyeGate	(MEDICINE - Hygiene): Foods for Health Keeping Clean Rest and Sleep Straight and Tall Strong Teeth		259. RAT ERADICATION MEASURES ON RATPROOFING PROJECTS (MEDICINE - Sanitation)	CDC **
233. OUR NORTH AMERICAN NEIGHBORS SERIES	EBF	(BOTANY): Caring for our Gardens Plants in Home and School Plants in My Garden Plants in the Park U.S. Conservation Service A Vegetable Garden The Woods in Autumn The Woods in Spring The Woods in Summer		252. PRIMARY SCIENCE SERIES	EBF	260. RATPROOFING OF EXISTING BUILDINGS (MEDICINE - Sanitation)	CDC **
(GEOGRAPHY): Alaska (et al.)		242. PLANTS, ANIMALS AND INSECTS SERIES	SVE	(ASTRONOMY): Night and Day The Night Sky (GEOGRAPHY): The Earth (PHYSICS - Meteorology): Our Weather The Seasons (PHYSICS): The Air		261. RECOGNITION OF DOMESTIC RODENT SIGNS (MEDICINE - Sanitation)	CDC **
- P -		(BIOLOGY): Living Things (BOTANY): Seeds and Seed Travels (ZOOLOGY): Insects and Their Ways (et al.)		253. PRINCIPLES OF BIOLOGY SERIES SET NO. 1	YAF	262. RECOGNITION OF RAT SIGNS FOR DOT DUSTING (MEDICINE - Sanitation)	CDC **
234. PERMANENT DITCH LINES (MEDICINE - Sanitation)	CDC **	243. PLASTICS SERIES	OE /	(BIOLOGY): Behavior of Living Things Energy and Life Fundamental Life Processes Interdependence of Living Things Structure of Living Things: Parts 1 & 2 SET NO. 2		263. ROUND AND ROUND GO THE WHEELS (PHYSICS)	MCG-H
235. PETROLEUM IN TODAY'S LIVING (ENGINEERING)	AmPetro	(CHEMISTRY): Origin and Synthesis of Plastics Materials (et al.)		(BIOLOGY): Descent With Change Effects of Environment Factors in Health & Disease Factors in Survival Heredit and Environment Origins of Living Things		- S -	
236. PHYSICAL THERAPY IN THE TREATMENT OF AMPUTATIONS (MEDICINE - Sanitation)	USArmy-P	244. POWER SPRAYING WITH DDT (MEDICINE - Sanitation)	CDC **	254. PRINCIPLES OF LIQUIDS AND GASES (PHYSICS)	USAF-UNF	264. SAMPLING AND TESTING DRINKING WATER (MEDICINE - Lab. Procedures)	CDC-UNF
237. PLANE GEOMETRY (MATHEMATICS - Geometry)	CurtF	245. PRACTICAL TV ALIGNMENT (PHYSICS)	MCG-H /	255. PRODUCTS AND INDUSTRIES SERIES	YAF	265. SANITARY DESIGN IN DRINKING FOUNTAINS (MEDICINE - Sanitation)	CDC **
238. PLANE GEOMETRY SERIES	SVE	246. PREHISTORIC LIFE SERIES	EBF	(CHEMISTRY): How We Get Our Gas How We Get Our Glass How We Get Our Plastics (GEOLOGY): How We Get Our Oil (GEOLOGY - Metallurgy): How We Get Our Aluminum		266. SCHISTOSOMIASIS (5-006) (MEDICINE - Tropical)	CDC **
(MATHEMATICS - Geometry): Areas Basic Angles and Experimental Geometry Basic Triangles Common Tangents and Tangent Circles Congruent and Overlapping Triangles Introduction to Circles Introduction to Demonstrative Geometry: Axioms, Theorems, Postulates Introduction to Plane Geometry Logic		(PALEONTOLOGY): The Age of Mammals The Coming of Reptiles Discovering Fossils The Rise of Dinosaurs The Story Fossils Tell Triumph of the Dinosaurs		247. THE PREPARATION OF HEMATOXYLIN STAINED SMEARS FOR DIAGNOSIS OF INTESTINAL PROTOZOA (MEDICINE - Lab. Procedures)	CDC-UNF **	267. SCHISTOSOMIASIS (5-006.1) (MEDICINE - Tropical)	CDC **
		248. PREPARING BLOOD FILMS FOR MICROSCOPICAL EXAMINATION (MEDICINE - Lab. Procedures)	CDC **			268. SCHOOL HEALTH TODAY (MEDICINE - Public Health)	NatDA

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
271. SCIENCE 1, INTERMEDIATE SERIES (ASTRONOMY): What is in the Sky? (BIOLOGY): How Life Began (BOTANY): Parts of a Flowering Plant (GEOGRAPHY): About Our Earth (GEOLOGY): Our Changing Earth (GEOLOGY - Paleontology): Animals of Long Ago Man of Long Ago (PHYSICS): How Our Earth Began Our Earth is Moving	CurrF	(MEDICINE - Sanitation): Filtration Plants (at al.)	GE **	(CHEMISTRY): Corn Chemistry in Action (at al.)	MCG-H	Identification of Some Common Sucking Lice (at al.)	
272. THE SCIENCE OF MUSICAL INSTRUMENTS (PHYSICS)	MCG-H	280. SOUND (PHYSICS)	GE **	293. TEEN-AGE CLOTHING SERIES (MEDICINE - Hygiene): Grooming (at al.)	MCG-H	- U -	
273. SCIENCE OF SEEING (PHYSICS)	GE **	281. THE SOUTH SERIES (GEOGRAPHY): Agriculture Resources and Manufacturing Industries Subtropical Coastal Lands Subtropical Coastal Lands and Western Texas	SVE	294. TEN-EIGHTY, A RAT POISON FOR PROFESSIONAL USE (MEDICINE - Sanitation)	CDC-WWF	304. UNDER CONTROL: THE STORY OF MALARIA PREVENTION AROUND MAN-MADE LAKES (MEDICINE - Tropical)	CDC **
274. SEASONS, WEATHER AND CLIMATE SERIES (GEOGRAPHY): The Sun and Our Seasons (PHYSICS): Our Earth in Motion (PHYSICS - Meteorology): Climate What is Weather? What Makes the Weather?	JamH	282. SPRAY-TIME (MEDICINE - Sanitation)	CDC **	295. TENSION TESTING (ENGINEERING)	OE /	305. UNDERSTANDING SNAKES (ZOOLOGY)	Wayne
275. SEE FOR YOURSELF (ENGINEERING)	BLBS	283. SPREAD AND PREVENTION OF TRICHINOSIS (MEDICINE - Parasitology)	CDC-WWF	296. TELEVISION RECEIVERS (PHYSICS)	MCG-H /	306. THE UNITED STATES - ITS HISTORY AND GEOGRAPHY SERIES (GEOGRAPHY): The Middle Atlantic States - Their Geography The Middle West - Its Geography New England - Its Geography The Pacific Coast States - Their Geography The Southern United States - Their Geography The Southwestern United States - Its Geography The Northwestern States The Southwestern States The Western United States - Its Geography	POP
276. SEXUAL REPRODUCTION IN PLANTS (BOTANY)	DeK	284. THE STORY OF THE DEVELOPMENT OF MAN SERIES (GEOLOGY): Men of the Old Stone Age (at al.)	SVE	297. TELEVISION SYSTEM (PHYSICS)	MCG-H /	307. U.S. REGIONAL GEOGRAPHY SERIES EBF (GEOGRAPHY): The Far Western States The Middle States The Northwestern States The Southwestern States The Southwestern States	EBF
277. SIMPLE NURSING SERIES SET 1 (MEDICINE - Nursing): Body Mechanics Care of the Hospital Unit General Principles of Practical Nursing Home Environment Hygiene Patient's Bed (at al.)	MCG-H	285. THE STORY OF THOMAS A. EDISON (PHYSICS)	POP	298. THEN AND NOW IN THE UNITED STATES SERIES (GEOGRAPHY): Then and Now Along the Lower Mississippi - Along the Main Street of the East - Between the Western Mountains - In California - In Florida - In New England - In Texas - In the Appalachian Mountains - In the Corn Belt - In the Cotton Belt - In the Midwest Dairy Lands - In the Pacific Northwest - In the Rocky Mountains - In the Old South - In the Southwest - In the Tennessee Valley - On the Great Lakes Waterway - On the Great Plains	SILBUR	308. UNITED STATES REGIONAL GEOGRAPHY SERIES (GEOGRAPHY)	SVE
278. THE SKY SERIES (ASTRONOMY): The Changing Moon How We Learn About the Sky Interesting Things About the Planets A Multitude of Stars Our Neighbor, the Moon Stories of the Constellations The Sun's Family	JamH	286. SUGAR THROUGH THE AGES (BOTANY)	SugRef	299. THEORY OF OPERATION OF THE FOUR POLE MAGNETO (ENGINEERING)	BenAC /	309. U.S. REGIONAL GEOGRAPHY SERIES (GEOGRAPHY): The Appalachian Highlands The Atlantic Plain and Piedmont The Central Plains The Great Lakes Region The Great Plains The Gulf Plains The Northeast The Pacific Coast Region The Plateau Region United States - A Regional Overview	YAF
279. SMALL WATER TREATMENT PLANTS SERIES	CDC **	287. SWIMMING POOL SANITATION (MEDICINE - Sanitation)	CDC-WWF	300. TRAINING SERIES FOR NURSES (MEDICINE - Nursing): Technique of Venipuncture (at al.)	ARC	310. THE USE OF WARFARIN IN RODENT CONTROL (MEDICINE - Sanitation)	CDC-WWF
		288. TACHOMETERS AND SYNCHRONISM INDICATORS (ENGINEERING)	USAF-WWF	301. THE TRAP DOOR SPIDER (ZOOLOGY)	AAA	311. USING AND UNDERSTANDING NUMBERS SERIES Numbers one:	SVE
		289. TAKING CARE OF DIABETES SERIES (MEDICINE - Nursing): Buying Good Food Care of the Feet Cooking Good Meals Diabetic Coma Eating for Good Health Insulin and its use Insulin Reaction Planning Good Meals Selecting Meals for all Occasions Tests in Diabetes What is Diabetes?	CDC **	302. 20TH CENTURY BOOKKEEPING AND ACCOUNTING SERIES (MATHEMATICS - Arithmetic)	SVE		
		290. TB-WHAT IT IS AND WHAT TO DO ABOUT IT (MEDICINE - Preventive Medicine)	NatIDA	303. TYPHUS CONTROL SERIES (MEDICINE - Parasitology)	CDC **		
		291. TEACHING CRUTCH WALKING (MEDICINE - Rehabilitation)	GE ** /				
		292. TECHNICAL SUBJECTS FOR HIGHER TRAINING SERIES	CAS				

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ASTRONOMY

TITLE AND CATEGORY	SOURCE AND AVAILABILITY	TITLE AND CATEGORY	SOURCE AND AVAILABILITY
Part 1: The Psychiatric Patient Part 2: How the Patient May Affect the Attendant Part 3: The Attendant Helps the Patient			
333. YOUR UNINVITED GUESTS (MEDICINE - Community Sanitation)	CDC ** //		
- Z -			
334. ZOOLOGY SERIES Set No. 1	MCG-H		
(ZOOLOGY): Flatworms Phyla Porifera and Coelenterata: Sponges and Coelenterates Protozoans Roundworms Set No. 2 (ZOOLOGY): Chordates Class Crustacea: Crustaceans Class Insecta: Insects Echinoderms Mollusks Segmented Worms			

DESCRIPTIONS OF FILMSTRIPS

ASTRONOMY

The changing moon (Filmstrip) Jam Handy Organization, 1947.
46 fr., b&w, 35 mm. (The sky series, no. 6)
With teacher's guide-index.
Summary: A detailed explanation of the phases of the moon eclipses, and the moon's effect on the earth's tides.

The changing seasons (Filmstrip) Popular Science Pub. Co., 1952.
52 fr., color, 35 mm.

Summary: Explains that the four seasons result from the rotation of the earth around the sun at an axis that is tilted at an angle of 23 1/2 degrees.

Constellations (Filmstrip) Film Strip-of-the-Month Club, 1955. Released by McGraw-Hill Book Company, Inc.

46 fr., color, 35 mm.
Anaco color.
With teacher's guide.
Summary: Explains how to build a star finder and how to locate constellations on star charts. Presents some of the constellations of the Northern and Southern Hemispheres, and explains that the changing positions of constellations are associated with the changing seasons. Captioned drawings.

Day and night (Filmstrip) Young America Films, 1949.
34 fr., b&w, 35 mm. (Elementary science series, set no. 1)

With teacher's guide.
Summary: Explains how day and night are caused by the rotation of the earth. For elementary school.

The earth and the universe series (Filmstrip) Society for Visual Education, Inc., 1952.

1 filmstrip, 357 fr., b&w, 35 mm.
Contents: 1. Comets and meteors.—2. Constellations.—3. The Earth in space.—4. Earth's Satellite—the Moon.—5. Stars and Galaxies.—6. The Sun and its planets.—7. Work of Astronomers and Space travel.

Fun with stars (Filmstrip) Popular Science Pub. Co., 1954.

41 fr., color, 35 mm. (Nature study)
Anaco color.
With teacher's guide.
Summary: Two children who observe the apparent movement of stars as the earth rotates, learn the distinguishing features of the constellations and how they got their names, and conduct simple experiments in their classroom, including the making of planetaria from umbrellas and tin cans. Captioned drawings.

Galileo (Filmstrip) Eye Gate House, 1951.

28 fr., color, 35 mm. (Men who helped us find out)
With teacher's manual.
Summary: Presents the contributions and discoveries of the astronomer Galileo.

How we learn about the sky (Filmstrip) Jam Handy Organization, 1947.

51 fr., b&w, 35 mm. (The sky series, no. 7)
With teacher's guide-index.
Summary: Discusses the contributions of early astronomers to astronomical exploration, and explains modern astronomical instruments.

How we think our earth came to be (Filmstrip) Jam Handy Organization, 1947.

62 fr., b&w, 35 mm. (Our earth series, no. 1)
With teacher's guide-index.
Summary: Presents the factors which scientists consider in theorizing about the earth's origin, and explains three commonly accepted theories.

Interesting things about the planets (Filmstrip) Jam Handy Organization, 1947.

82 fr., b&w, 35 mm. (The sky series, no. 8)
With teacher's guide-index.
Summary: Discusses the movements and orbits of the planets, facts and legends about them, and their discovery.

ASTRONOMY

International date line (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1958.
50 fr., b&w, 35 mm.

With teacher's guide.
Summary: Explains the international date line—how it functions, and the reasons for its importance; discusses the different time zones and their relationship to the date line. For junior and senior high schools.

Looking at the stars (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1951.
50 fr., b&w, 35 mm.

With teacher's guide.
Summary: A survey of present-day knowledge concerning the stars. Shows how the speed of light measures the distance of stars from the earth; explains why stars glow and have color, and why stars have energy. For elementary, junior and senior high school grades.

The moon, our earth's nearest neighbor (Filmstrip) Young America Films, 1955. © Young America Films, Inc.; 25Feb55; JP1172.
48 fr., color, 35 mm. (Elementary science series. Set no. 2)

Summary: Describes the moon's orbit, the phases of the moon, and the effect of the moon on the earth's tides.

A multitude of suns (Filmstrip) Jam Handy Organization, 1947.
52 fr., b&w, 35 mm. (The sky series, no. 1)

With teacher's guide/index.
Summary: Compares our sun with other stars, discusses the size and distance of stars, and explains the Milky Way.

Night and day (Filmstrip) Encyclopedia Britannica Films, 1955. Made by William P. Gottlieb Co.
48 fr., color, 35 mm. (Primary science)

Eastman color.
Summary: Captioned drawings are used to explain how day and night occur and why the length of the day varies in summer and winter. Presents a demonstration with a ball and an electric light bulb to illustrate the phenomenon of day and night.

The night sky (Filmstrip) Encyclopedia Britannica Films, 1955. Made by William P. Gottlieb Co.
40 fr., color, 35 mm. (Primary science)

Eastman color.
Summary: Describes the moon, stars, planets, and meteors in the night sky. Presents a demonstration with a projector and a ball to illustrate the phases of the moon's cycle. Shows how ancient people used groups of stars. Explains that pilots and ship captains use the position of stars in navigation. Captioned drawings.

Our neighbor, the moon (Filmstrip) Jam Handy Organization, 1947.
50 fr., b&w, 35 mm. (The sky series, no. 5)

With teacher's guide/index.
Summary: Portrays the moon's size and travel in relation to the earth and sun, and includes an imaginary trip to the moon based on scientific knowledge.

Our neighbors in space, pt. A: Pathways to the planets (Filmstrip) Charles Scribner's Sons, 1954.
29 fr., color, 35 mm.

Eastman color.
With teaching guide.
Correlated with Book 8 of The Wonderworld of science, by Warren Knox and others.
Summary: Describes the solar system and explains the movement of the planets in their orbits; shows the distances between the earth and the other planets.

Our neighbors in space, pt. B: Space ships to the planets (Filmstrip) Charles Scribner's Sons, 1954.
38 fr., color, 35 mm.

Eastman color.
With teaching guide.
Correlated with Book 8 of The Wonderworld of science, by Warren Knox and others.
Summary: Examines the problems of survival that must be overcome before man can visit neighboring planets by space ship; studies the problems relating to gravity, oxygen supply, the presence of meteors, and cosmic rays. Discusses the force of gravity, surface conditions, and the surrounding atmosphere of some of the neighboring planets.

The seasons (Filmstrip) Young America Films, 1952.
44 fr., color, 35 mm. (Elementary science series. Set no. 2)

With teacher's guide.
Summary: Demonstrates how the earth's inclination on its axis and its revolution around the sun causes the four seasons. For elementary grades.

The solar system (Filmstrip) Young America Films, 1952. © Young America Films, Inc.; 25Feb52; JP1171.
43 fr., color, 35 mm. (Elementary science series. Set no. 2)

Summary: Describes the nine planets of the solar system, their orbits, and the position of each planet in relation to the sun.

The starry universe (Filmstrip) Life, 1956. Made by Colortech Films.
29 fr., color, 35 mm. (The world we live in, no. 13)

Eastman color.
Based on the article of the same title which appeared in Life magazine, Dec. 20, 1954.
Summary: Captioned drawings and photographs are used to describe the structure of the earth's solar system and the starry universe. Compares the size, temperature, and position of the nine planets in the earth's solar system. Explains how stars are classified, and traces the different stages in stellar evolution.

The stars in the sky (Filmstrip) Eye Gate House, 1952.
25 fr., color, 35 mm. (Science in everyday life)

With teacher's manual.
Summary: Explains the solar system; why there is life on earth; how the sun affects all living things; the causes of eclipses; what the stars are; what a constellation is; the better known constellations; how the planets move in the solar system; and the names of the planets. For elementary grades.

Stories of the constellations (Filmstrip) Jam Handy Organization, 1947.
35 fr., b&w, 35 mm. (The sky series, no. 2)

With teacher's guide/index.
Summary: Illustrates legends associated with star constellations to identify constellations seen in both summer and winter skies in the Northern Hemisphere.

The sun and the earth, pt. A: Exploring the sun (Filmstrip) Charles Scribner's Sons, 1954.
29 fr., color, 35 mm.

Eastman color.
With teaching guide.
Correlated with Book 7 of The Wonderworld of science, by Warren Knox and others.
Summary: Describes the instruments used by scientists to study the sun; explains how these instruments have made it possible to investigate the temperature and energy of the sun. Describes the composition of the sun and earth, and illustrates the effect of sun spots upon the earth.

The sun and the earth, pt. B: The sun at work (Filmstrip) Charles Scribner's Sons, 1954.
31 fr., color, 35 mm.

Eastman color.
With teaching guide.
Correlated with Book 7 of The Wonderworld of science, by Warren Knox and others.
Summary: Explains the process of photosynthesis by analyzing a green leaf which manufactures food and oxygen from carbon dioxide and water with the aid of the sun's energy. Describes the manner in which the sun heats the earth and its atmosphere and discusses the causes of global and local winds.

The sun's family (Filmstrip) Jam Handy Organization, 1947.
42 fr., b&w, 35 mm. (The sky series, no. 3)

With teacher's guide/index.
Summary: Introduces the planetary system and points out the similarities and difference between planets, meteors, and comets.

What causes the seasons (Filmstrip) Young America Films, 1952. © Young America Films, Inc.; 25Feb52; JP1172.
48 fr., color, 35 mm. (Elementary science series. Set no. 2)

Summary: Explains that the seasons are caused mainly by the relative position of the earth's axis with respect to the sun.

What is in the sky? (Filmstrip) Curriculum Films, 1951.
26 fr., color, 35 mm. (Science 1, intermediate series)

Eastman color.
Revised version of the 1947 filmstrip.
With teacher's manual.
Summary: Answers common questions about the planets, satellites, and comets in the solar system. Shows relative size and distances in the universe.

BIOLOGY

Antony van Leeuwenhoek (Filmstrip) Encyclopedia Britannica Films, 1955. Made by William P. Gottlieb Co.
21 fr., color, 35 mm. (Great names in biology)

Eastman color.
Summary: Captured drawings are used to present a biographical sketch of Anthony van Leeuwenhoek, the Dutch microscopist who studied through the microscope the minute structure of animals and plants.

Balance among living things (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, in cooperation with L. W. Singer Co., 1950.
42 fr., color, 35 mm. (Plants and animals, no. 2)

With teacher's guide.
Correlated with the How and Why science books.
Summary: An intermediate grade science class learns that living things are dependent upon each other and upon the soil. Presented in the environment of the schoolyard, park, sidewalk, etc.

BIOLOGY

Basic biology (Filmstrip) Society for Visual Education, 1951.
6 filmstrips (1 roll each) color, 35 mm.

With manual.
Summary: Through photographs and diagrams portrays the identifying characteristics, structure, growing habits, and habitats of some of the more common trees, flowers, and birds.
Content: 1. What makes up a flower family? 2. Structure of flower parts—3. Identifying porcupine quills—4. Plant and animal life under the sea—5. The kinds of plants—6. Life of a June bug and a cicada.

Beginning nature study (Filmstrip) Society for Visual Education, 1951.
7 filmstrips, color, 35 mm.

Summary: Presents photographs of birds, insects, animals, and wild flowers. Shows how they live and discusses their identifying characteristics. For primary and intermediate grades.
Content: 1. Birds of our community. 20 fr.—3. Birds and animal habits. 22 fr.—4. Farm animals and pets. 30 fr.—5. Homes of birds. 31 fr.—6. Animals of the sea. 32 fr.—7. Wild flowers everyone should know. 33 fr.—8. Backyard insects. 34 fr.

Behavior of living things (Filmstrip) Centron Corp. Released by Young America Films, 1955.
37 fr., b&w, 35 mm. (Principles of biology, no. 4)

With teacher's guide.
Summary: Explains that the reactions of an organism to stimuli constitute its behavior. Compares simple and complex nerve systems. Analyzes various types of responses resulting from impulses through reflex actions, instinctive responses, and conditioned reflexes, to habit formation, learning, and reasoning. Captioned drawings and photographs.

Biology of insects—active camouflage (Filmstrip) Society for Visual Education, 1947.
40 fr., b&w, 35 mm. (Nature's enchanted woodland, 8)

Summary: Illustrates camouflage through the various stages in the life cycle of an insect. For junior high school through college.

Biology of insects—protective modeling and color (Filmstrip) Society for Visual Education, 1947.
35 fr., b&w, 35 mm. (Nature's enchanted woodland, 9)

Summary: Shows the life cycle of the rare beetle *Psephenus* (painted) and illustrates its modes of camouflage. For junior high school through college.

Biology of spiders—biological control (Filmstrip) Society for Visual Education, 1947.
35 fr., b&w, 35 mm. (Nature's enchanted woodland, 4)

Summary: Presents the problems of biological control among spiders. Shows that in the case of the black widow it is a small yellow fly that wrecks the egg sacs of the spider and eats the poorly eggs. For junior high school through college.

Biology of spiders—the black widow (Filmstrip) Society for Visual Education, 1947.
35 fr., b&w, 35 mm. (Nature's enchanted woodland, 11)

Summary: Pictures the black widow spider—her habits, hideouts, enemies, nest, egg sacs, and poisonous bite. For junior high school through college.

BIOLOGY

Biology of spiders—spider houses (Filmstrip) Society for Visual Education, 1947.

40 fr., b&w, 35 mm. (Nature's enchanted woodland, 3)
 Summary: Illustrates the private lives of the tarantula, trapdoor spider, hunting spider, and the huge wolf spider in their secluded homes. For junior high school through college.

Birds grow (Filmstrip) Margaret Bradfield Associates, 1953. Made by Jam Handy Organization.

26 fr., color, 35 mm. (Growing things, no. 3)
 Avian color.
 Summary: Captioned drawings are used to show children observing a family of robins in a nest in the window sill of their classroom. Shows the building of the nest, the hatching of the eggs, the feeding of the young, the parents of the young robins to learn to fly and to find their own food, and the migration of the birds to a warm climate in the autumn.

Butterflies grow (Filmstrip) Margaret Bradfield Associates, 1953. Made by Jam Handy Organization.

25 fr., color, 35 mm. (Growing things, no. 3)
 Avian color.
 Summary: Captioned drawings are used to show school children preparing a home for a caterpillar in their classroom, feeding the caterpillar, and observing the caterpillar change to a chrysalis from which it emerges as a butterfly.

Charles Linnaeus (Filmstrip) Encyclopedia Britannica Films, 1953. Made by William P. Gottlieb Co.

25 fr., color, 35 mm. (Great names in biology)
 Eastman color.
 Summary: Captioned drawings are used to present a biographical sketch of Charles Linnaeus, the Swedish botanist who developed a system of classification for all living things.

Charles Darwin (Filmstrip) Encyclopedia Britannica Films, 1953. Made by William P. Gottlieb Co.

25 fr., color, 35 mm. (Great names in biology)
 Eastman color.
 Summary: Captioned drawings are used to present a biographical sketch of Charles Darwin, the English naturalist who formulated a theory of evolution.

Communities of living things (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, in cooperation with L. W. Singer Co., 1950.

50 fr., color, 35 mm. (Plants and animals, no. 3)
 With teacher's guide.
 Summary: Correlated with the flow and why science books. Summary: A junior high school science class learns how, in a natural community, plants and animals adjust themselves to the natural community, plants and animals along themselves to the natural community, and how man is able to improve his community by use of materials and energy.

Descent with change (Filmstrip) Centron Corp. Released by Young America Films, 1955.

40 fr., b&w, 35 mm. (Principles of biology, no. 12)
 With teacher's guide.
 Summary: Traces the evolution of animal life from the Paleozoic Era to modern times, with examples of dominant life forms in each period. Shows the origin of the vertebrates and the progressive development of fish, amphibians, reptiles, birds, and mammals. Captioned drawings and photographs.

Dinosaurs (Filmstrip) Society for Visual Education, 1948.

54 fr., b&w, 35 mm.
 With teacher's guide.
 Summary: Shows the appearance and habits of these prehistoric monsters.

Effects of environment (Filmstrip) Centron Corp. Released by Young America Films, 1955.

29 fr., b&w, 35 mm. (Principles of biology, no. 7)
 With teacher's guide.
 Summary: Describes the interaction between organisms and their environment, showing that living things are specialized to some degree. Explains that most living things are specialized to some degree for life in a particular environment, that almost every organism has some organs adapted to it, and that specialization may be a handicap if environment changes. Captioned drawings and photographs.

Energy and life (Filmstrip) Centron Corp. Released by Young America Films, 1955.

36 fr., b&w, 35 mm. (Principles of biology, no. 1)
 With teacher's guide.
 Summary: Explains that the sun is the original source of the energy which plants transform into the food necessary to all living things. Shows that all living things compete for the available food, energy, and that matter and energy are not created or destroyed, but pass continuously from plants to animals and into the environment. Captioned photographs and drawings.

Factors in health and disease (Filmstrip) Centron Corp. Released by Young America Films, 1955.

41 fr., b&w, 35 mm. (Principles of biology, no. 10)
 With teacher's guide.
 Summary: Explains that diseases may be caused by microorganisms, dietary deficiencies, allergies, and imbalances of glandular secretion, hormones, and enzymes in the body. Discusses the prevention and control of communicable diseases.

Factors in survival (Filmstrip) Centron Corp. Released by Young America Films, 1955.

44 fr., b&w, 35 mm. (Principles of biology, no. 9)
 With teacher's guide.
 Summary: Explains that organisms must fight to survive and reproduce are those that are structurally and functionally best fitted to their environment. Shows ways in which various species of living things have adapted to their environments. Lists environmental factors which are essential to life. Explains that ability to adjust to change aids survival, and that the ability of the higher animals to protect and train their young compensates for their being less perfect than the lower animals.

Food in the body, pt. A: Learning about nutrients (Filmstrip) Charles Scribner's Sons, 1954.

34 fr., color, 35 mm.
 With teacher's guide.
 Summary: Correlated with Book 7 of The wonderworld of science, by Warren Kiser and others.
 Summary: Explains that nutrients are the substances in food which are required by the body for the maintenance of good health. Shows tests for starch, simple sugar, fat, protein, vitamin C, and minerals. Identifies the different nutrients found in the foods which are eaten.

Food in the body, pt. B: Using the nutrients (Filmstrip) Charles Scribner's Sons, 1954.

35 fr., color, 35 mm.
 Eastman color.
 With teacher's guide.
 Summary: Correlated with Book 7 of The wonderworld of science, by Warren Kiser and others.
 Summary: Explains how certain nutrients are absorbed by the body. An experimental model of the small intestine is used to illustrate the digestion of nutrients. Describes the difference between soluble foods that are absorbed without requiring digestion and those that must be digested before they can be absorbed.

Fundamental life processes (Filmstrip) Centron Corp. Released by Young America Films, 1955.

50 fr., b&w, 35 mm. (Principles of biology, no. 2)
 With teacher's guide.
 Summary: Explains that all living things are composed of protoplasm and have in common the processes of transforming food into energy, growing and repairing body cells, reproducing, responding to stimuli, and excreting waste. Compares the ways in which these processes are carried out in higher and lower forms of life. Captioned photographs and drawings.

Gregor Mendel (Filmstrip) Encyclopedia Britannica Films, 1955. Made by William P. Gottlieb Co.

50 fr., color, 35 mm. (Great names in biology)
 Eastman color.
 Summary: Captioned drawings are used to present a biographical sketch of Gregor Mendel, the Austrian Augustinian abbot who discovered by the experimental breeding of peas that there is an inheritance of many characteristics in animals and plants.

Heredity and environment (Filmstrip) Centron Corp. Released by Young America Films, 1955.

41 fr., b&w, 35 mm. (Principles of biology, no. 8)
 With teacher's guide.
 Summary: Explains that individuals inherit characteristics through the chromosomes of their parents, that some hereditary variations are caused by nutrients, that environment influences the expression of inherited characteristics, and that acquired characteristics are not inheritable. Captioned drawings and photographs.

A home for water plants and animals (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, in cooperation with L. W. Singer Co., 1950.

40 fr., color, 35 mm. (Plants and animals, no. 1)
 With teacher's guide.
 Summary: Correlated with the flow and why science books. Summary: A primary grade science class constructs an aquarium, gathers plants and animals for the aquarium, and learns that plants and animals live together and are dependent upon each other.

How food is digested (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1947.

50 fr., color, 35 mm. (Food and nutrition, no. 4)
 With teacher's guide.
 Summary: In every form, traces the flow of food through the digestive system of the body, describing the mechanical and chemical operations of digestion. Illustrates the operations of the blood and lymph systems in moving food products to where they are needed in the body, and the operations of the large intestine in removing waste products from the body. For junior high school.

How life began (Filmstrip) Curriculum Films, 1951.

30 fr., color, 35 mm. (Science I, intermediate series)
 Eastman color.
 Revised version of the 1947 filmstrip.
 With teacher's manual.
 Summary: Explains that although nobody knows what the first living things were like, scientists tell what the early forms of life may have been like, and what many-celled plants and animals have in common with the simplest forms.

How we produce sound and speech (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1951.

45 fr., b&w, 35 mm.
 With teacher's guide.
 Summary: The basic scientific principles underlying sound, how the human body produces sound waves, and how the ear changes the sound waves into nerve messages. Describes the development of speech in children who are hard of hearing. For elementary, junior and senior high school grades.

How you breathe (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Your body series)
 Eastman color.
 With teacher's manual.
 Summary: Explains the function and mechanics of the respiratory system.

How your body grows (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Your body series)
 Eastman color.
 With teacher's manual.
 Summary: Explains the nature of cells, and the essentials for proper growth: oxygen, food, water, sunlight, and rest.

How your ears work (Filmstrip) Jam Handy Organization, 1950.

61 fr., color, 35 mm. (Health adventures, no. 3)
 With teacher's guide.
 Summary: Explains what sound is and how it is carried; describes the structure of the ear and how sounds are heard; and explains how to care for the ear.

Human biology series (Filmstrip) Society for Visual Education, 1947-48.

5 filmstrips, b&w, 35 mm.
 Summary: Locates the various biological systems of the body, describes their appearance, and explains their functions. For intermediate grades through high school.
 Contents: 1. Digestive system, 35 fr.—7. Fossils and nutrition, 65 fr.—8. Endocrine glands, 65 fr.—9. Food and nutrition, 65 fr.—10. Mechanisms of breathing, 65 fr.—11. Posture and exercise, 65 fr.—12. Nervous system, 65 fr.—13. Reproduction among mammals, 65 fr.—14. The teeth, 65 fr.—15. Work of the kidneys, 65 fr.—16. The eyes and their care, 65 fr.

The human body series (Filmstrip) Encyclopedia Britannica Films, Inc.

16 filmstrips, b&w, 35 mm.
 Contents: 1. Body defenses against disease, 65 fr.—2. Care of the feet, 65 fr.—3. Control of body temperature, 65 fr.—4. Digestion of foods, 65 fr.—5. Ears and hearing, 65 fr.—6. Endocrine glands, 65 fr.—7. Fossils and nutrition, 65 fr.—8. The heart and circulation, 65 fr.—9. Heredity, 65 fr.—10. Mechanisms of breathing, 65 fr.—11. Posture and exercise, 65 fr.—12. Nervous system, 65 fr.—13. Reproduction among mammals, 65 fr.—14. The teeth, 65 fr.—15. Work of the kidneys, 65 fr.—16. The eyes and their care, 65 fr.

—Another issue, color.

BIOLOGY

Human reproduction (Filmstrip) McGraw-Hill Book Co., 1948.

30 fr., color, 35 mm. (Health education series, no. 4)
 Supplements motion picture of the same title.
 Correlated with the book *Human Life*, by Harold S. Diehl.
 Summary: Explains the human reproductive system and the process of conception, pregnancy, and childbirth. Describes the anatomy, physiology, and functions of the male and female reproductive organs. Illustrates by means of drawings the body mechanism of delivery. For college and adult groups.

Interdependence of living things (Filmstrip) Centron Corp., 1955.

44 fr., color, 35 mm. (Principles of biology, no. 3)
 With teacher's guide.
 Summary: Describes parasitic, symbiotic, commensal, and competitive relationships among living things. Explains that a natural balance is established among inhabitants of each environment, and that the soil is basic to all life. Captioned photographs and drawings.

Life on the desert (Filmstrip) Long Filmmade Service, Released by Society for Visual Education and Long Filmmade Service, 1947.

41 fr., color, 35 mm. (Nature study illustrated. Little Journeys and weather series)
 With manual.
 Summary: Describes flora and fauna commonly found in the desert.

Living things (Filmstrip) Society for Visual Education and Row, Peterson, 1949.

43 fr., color, 35 mm. (Plants, animals, and insects)
 With manual.
 Summary: Correlated with the text of the same title by Bertha Morris Parker. Describes the identifying characteristics of some of the more common plants and animals. For intermediate grades and high school.

Louis Pasteur (Filmstrip) Encyclopedia Britannica Films, 1955. Made by William P. Gottlieb Co.

33 fr., color, 35 mm. (Great names in biology)
 Eastman color.
 Summary: Captioned drawings are used to present a biographical sketch of Louis Pasteur, the French chemist who discovered the treatment for rabies and showed the importance of a partial sterilization of fluids in order to destroy organisms and bacteria.

The Magic Camera (Filmstrip) Westinghouse Electric Corporation, 1948.

34, 15 min., color, 35 mm.
 Summary: How human eyes work; kind of artificial light they need. Lens and retina of eye compared to lens and film of camera.

Origins of living things (Filmstrip) Centron Corp., Released by Young America Films, 1955.

32 fr., color, 35 mm. (Principles of biology, no. 11)
 With teacher's guide.
 Summary: Discusses modern theories about the origin and development of life as substantiated in the study of viruses, embryology, and comparative anatomy. Refutes the theory of spontaneous generation and other theories that have arisen because of the complexity of the life cycle of some organisms. Captioned drawings and photographs.

Plant and animal environment series (Filmstrip) Society for Visual Education, 1951.

4 filmstrips, color, 35 mm.
 Summary: Identifies the more common plants and animals of various sections of the U. S. and shows their natural habitat; explains the relationship between their habits, living habits and environment, and the adaptation of plants and animals to the region in which they live. For intermediate grades and Junior High schools.
 Content: 1. Plants and animals of the mountains. 20 fr.—2. Plants and animals of the desert. 30 fr.—3. Plants and animals of the seashore and marshes. 31 fr.—4. Plants and animals under the sea. 30 fr.

Plants and animals in the spring (Filmstrip) Society for Visual Education, 1951.

34 fr., color, 35 mm. (Country field trips, 2)
 Summary: Shows effects which seasonal changes in the spring bring to the living habits of animals and plants and to the activities of people. For primary and intermediate grades.

Plants grow (Filmstrip) Margaret Bradfield Associates, 1953. Made by Jam Handy Organization.

26 fr., color, 35 mm. (Growing things, no. 1)
 Eastman color.
 Summary: Captioned drawings are used to show a young girl planting pumpkin seeds, caring for her garden, watching the growth of the plants, observing the development of flowers and fruit, and selecting ripe pumpkins in the autumn to be used as a Jack-o'-lantern.

Rabbits grow (Filmstrip) Margaret Bradfield Associates, 1953. Made by Jam Handy Organization.

25 fr., color, 35 mm. (Growing things, no. 6)
 Eastman color.
 Summary: Captioned drawings are used to show a young girl taking care of two pet rabbits and instructing a friend in the proper care of a young rabbit. Shows a mother rabbit feeding, washing, and grooming her babies which are born in a nest of fur. Describes the habits and growth of rabbits from furries, pink babies to hopping rabbits that are able to care for themselves.

Sleep and rest (Filmstrip) Jam Handy Organization, 1950.

27 fr., color, 35 mm. (Health adventures, no. 9)
 With teacher's guide-index.
 Summary: Points out the importance and need of sleep and rest; shows what happens to the body during sleep; and explains how to rest and sleep well.

Structure of living things. Part 1 (Filmstrip) Centron Corp., Released by Young America Films, 1955.

35 fr., color, 35 mm. (Principles of biology, no. 4)
 With teacher's guide.
 Summary: Explains that the cell is the basic unit in the structure of living organisms, that groups of specialized cells form tissues, that tissues work together as organs, and that related organs form systems. Considers lower and higher forms of life and shows that the higher forms are distinguished by more complex and specialized structures. Captioned photographs and drawings.

Structure of living things. Part 2 (Filmstrip) Centron Corp., Released by Young America Films, 1955.

42 fr., color, 35 mm. (Principles of biology, no. 5)
 With teacher's guide.
 Summary: Explains that living things are classified by similarity of structure. Describes distinguishing structural characteristics of the main phyla in the plant and animal kingdoms, with representative examples of the common classes. Captioned photographs and drawings.

Summer on the farm (Filmstrip) Society for Visual Education, 1951.

33 fr., color, 35 mm. (Country field trips, 4)
 Summary: Shows effects which seasonal changes in the summer bring to the living habits of animals and plants and to the activities of people. For primary and intermediate grades.

Toads grow (Filmstrip) Margaret Bradfield Associates, 1953. Made by Jam Handy Organization.

29 fr., color, 35 mm. (Growing things, no. 4)
 Eastman color.
 Summary: Captioned drawings are used to show a class of children watching the development of tadpoles from a string of laid eggs which are placed in an aquarium in the schoolroom. Shows the pupils observing the evolution of toads from the tadpoles. Describes the eating habits and the usefulness of toads.

Trees grow (Filmstrip) Margaret Bradfield Associates, 1953. Made by Jam Handy Organization.

25 fr., color, 35 mm. (Growing things, no. 2)
 Eastman color.
 Summary: Captioned drawings are used to show children observing the early spring planting of a maple tree in the schoolyard, the development of its buds, flowers, seeds, and new leaves, the autumnal coloration of the leaves, and the falling of the leaves before winter. Shows that the tree serves as a home for a robin and that it provides cool shade for the children's playtime.

A trip to the autumn woods (Filmstrip) Society for Visual Education, 1951.

30 fr., color, 35 mm. (Country field trips, 1)
 Summary: Shows effects which seasonal changes in autumn bring to the living habits of animals and plants and to the activities of people. For primary and intermediate grades.

We grow (Filmstrip) Margaret Bradfield Associates, 1953. Made by Jam Handy Organization.

27 fr., color, 35 mm. (Growing things, no. 7)
 Eastman color.
 Summary: A young boy's questions about the size and habits of his baby sister are answered as his mother uses his baby book to show him a record of his own growth. Shows that sleep, food, play, and fresh air contribute to the growth of a child. Captioned drawings.

William Harvey (Filmstrip) Encyclopedia Britannica Films, 1955. Made by William P. Gottlieb Co.

40 fr., color, 35 mm. (Great names in biology)
 Eastman color.
 Summary: Captioned drawings are used to present a biographical sketch of William Harvey, the English physician who discovered that the blood circulates through the body.

Winter in the country (Filmstrip) Society for Visual Education, 1951.

32 fr., color, 35 mm. (Country Field Trips, 3)
 Summary: Effects seasonal changes in winter bring on living habits of animals and plants, on activities of people.

Your blood system (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Your body series)
 Eastman color.
 With teacher's manual.
 Summary: Explains the composition of blood, and how it carries food and oxygen to all body cells—from the heart, through arteries, capillaries, and veins, back to the heart.

Your body's message system (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Your body series)
 Eastman color.
 With teacher's manual.
 Summary: Explains how the brain and spinal cord direct our bodies through the involuntary and voluntary nervous system.

Your bones (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Your body series)
 Eastman color.
 With teacher's manual.
 Summary: Explains the body's skeletal structure and its function.

Your bones and muscles (Filmstrip) Jam Handy Organization, 1950.

71 fr., color, 35 mm. (Health adventures, no. 7)
 With teacher's guide-index.
 Summary: Describes the structure and function of the skeleton; the function of muscles; the importance of good posture; and the care of bones and muscles.

Your digestion (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Your body series)
 Eastman color.
 With teacher's manual.
 Summary: Explains the absorption of food through the digestive system.

Your eyes at work (Filmstrip) Jam Handy Organization, 1950.

67 fr., color, 35 mm. (Health adventures, no. 2)
 With teacher's guide-index.
 Summary: Shows how human eyes are protected; explains the parts of the eye and how they work, and how to care for the eyes.

Your food and digestion (Filmstrip) Jam Handy Organization, 1950.

60 fr., color, 35 mm. (Health adventures, no. 4)
 With teacher's guide-index.
 Summary: Describes the main groups of food and how they help the body; explains the digestive system and how it may be aided in its work.

Your heart and lungs (Filmstrip) Jam Handy Organization, 1950.

74 fr., color, 35 mm. (Health adventures, no. 8)
 With teacher's guide-index.
 Summary: Describes the structure and function of the heart and lungs; explains what the blood is like; and discusses the care of the heart and lungs.

BIOLOGY

Your muscles (Filmstrip) Curriculum Films, 1951.
25 fr., color, 35 mm. (Your body series)
Eastman color.
With teacher's manual.
Summary: Explains how the body gets its power from voluntary and involuntary muscles which give movement, and also operate important internal organs.

Your nose and throat (Filmstrip) Jam Handy Organization, 1950.
60 fr., color, 35 mm. (Health adventures, no. 4)
With teacher's guide-index.
Summary: Describes the structure of the nose, and demonstrates how the nose functions in breathing, smelling, and tasting. Shows the function of the throat, and explains how it protects the body from cold.

Your skin (Filmstrip) Curriculum Films, 1951.
20 fr., color, 35 mm. (Your body series)
Eastman color.
With teacher's manual.
Summary: Explains how skin, hair, and nails serve as a protective covering for the body.

Your skin and its care (Filmstrip) Jam Handy Organization, 1950.
60 fr., color, 35 mm. (Health adventures, no. 5)
With teacher's guide-index.
Summary: Describes the structure and function of the skin, and explains how to care for the skin, nails, and hair.

Your teeth and their care (Filmstrip) Jam Handy Organization, 1950.
60 fr., color, 35 mm. (Health adventures, no. 1)
With teacher's guide-index.
Summary: Describes the location, name, and function of the permanent teeth; explains the structure of teeth; and shows how to care for the teeth.

BOTANY

American Trees (Filmstrip) Young America Films, Inc., 1953.
4 filmstrips (150 fr.) color, 35 mm. (Golden nature guides)

American wildflowers guide (Filmstrip) Simon and Schuster. Released by Young America Films, 1951.
4 filmstrips (200 fr.) color, 35 mm. (Golden nature guides)
Part 1, 20 fr., pt. 2, 40 fr., pt. 3, 52 fr., pt. 4, 47 fr.
Eastman color.
With illustrated manual.
Summary: Shows 134 of the most familiar American wildflowers. For elementary and high schools.

Behavior of plants (Filmstrip) Curriculum Films, 1951.
20 fr., color, 35 mm. (Behavior of animals and plants series)
Eastman color.
With teacher's manual.
Summary: Explains typical plant responses to stimuli such as sunlight, moisture, and the pull of gravity.

Caring for our gardens (Filmstrip) Eye Gate House, 1951.
20 fr., color, 35 mm. (Plants and gardens)
With teacher's manual.

Summary: Presents gardening as a cooperative undertaking by the whole family. Shows the following activities: planning, preparing the ground, fertilizing, making a compost heap, planting, watering, weeding, transplanting, thinning rows, and killing weeds.

Cooperation among plants and animals, pt. A: Helpful plants and animals (Filmstrip) Charles Scribner's Sons, 1954.
27 fr., color, 35 mm.

Eastman color.
With teaching guide.
Correlated with Book 7 of The wonderworld of science, by Warren Knox and others.
Summary: Describes plants that are useful to man; discusses the important role of plants in maintaining man's oxygen supply and in furnishing food and other products; explains how plants help other living things and how they return minerals to the soil and make it fertile; describes some of the microscopic plants which are the sources of important medicinal products.

Desert plant life (Filmstrip) Pnt Dowling Pictures, 1955.
35 fr., color, 35 mm.

Asa color.
Summary: Explains that deserts are areas of little rain where unusual plants are grown. Examples of these plants include the ocotillo, Joshua tree, Mohave yucca, barrel cactus, creosote bush, Mojave shrub, and cholla cactus. Describes how desert land has been converted into productive agricultural areas. Captioned photographs.

Growing new plants (Filmstrip) Popular Science Pub. Co., 1954.
45 fr., color, 35 mm. (Nature study)

Asa color.
With teacher's guide.
Summary: Children visiting a farm learn the methods of plant reproduction, including growth from seeds, sprouts, cuttings, grafting, tissue, roots, fibrous, and bulbs. Captioned photographs and drawings.

How new plants are produced, pt. A: Plant families (Filmstrip) Charles Scribner's Sons, 1954.
32 fr., color, 35 mm.

Eastman color.
With teaching guide.
Correlated with Book 8 of The wonderworld of science, by Warren Knox and others.

How new plants are produced, pt. B: Growing new plants (Filmstrip) Charles Scribner's Sons, 1954.
32 fr., color, 35 mm.

Eastman color.
With teaching guide.
Correlated with Book 8 of The wonderworld of science, by Warren Knox and others.

How plants help man (Filmstrip) Popular Science Pub. Co., 1954.
42 fr., color, 35 mm. (Nature study)

Asa color.
With teacher's guide.
Summary: Captioned photographs and drawings depict the uses of plants to man. Includes excerpts from children to show how trees not only provide material for houses and furniture, but also serve as a source of food and clothing; how grain, small plants, and microscopic organisms provide food for man and for the animals and birds that man eats; and how plants supply ingredients for paints.

Parts of a flowering plant (Filmstrip) Curriculum Films, 1951.
28 fr., color, 35 mm. (Science intermediate series)

Eastman color.
Revised version of the 1947 filmstrip.
With teacher's manual.
Summary: Shows the relationship between structure and function of roots, stems, leaves, and flowers of a typical flowering plant. Illustrates the life cycle of common plants.

Plants in home and school (Filmstrip) Eye Gate House, 1951.
20 fr., color, 35 mm. (Plants and gardens)

With teacher's manual.
Summary: Describes the care of plants at home, the type of plant which grows in homes, the work that is done in school gardens, and the purposes of planting a tree on Arbor Day. Shows cactus, azalea, beech, amaryllis, wisteria, geraniums, and African violets.

Plants in my garden (Filmstrip) Eye Gate House, 1951.
27 fr., color, 35 mm. (Plants and gardens)

Summary: Describes the care of a garden—watering, weeding, fertilizing, etc.; explains fertilization by insects and other means, and shows how flowers grow. Pictures the lilac, magnolia, phlox, gladiolus, daffodil, lily of the valley, rose, dahlia, tulip, bougainvillea, crocus, and water lily.

Plants in the park (Filmstrip) Eye Gate House, 1951.
20 fr., color, 35 mm. (Plants and gardens)

With teacher's manual.
Summary: Pictures flowers, plants, and trees in parks—lilies, birches, maple trees, spruce, a rose garden, Japanese cherries, and others. Points out the civic responsibility in maintaining the beauty of plants in parks.

Seeds and seed travels (Filmstrip) Society for Visual Education and How, Peterson, 1945.
49 fr., color, 35 mm. (Plants, animals, and insects)

With manual.
Correlated with the text of the same title by Bertha Morris Parker. Summary: Illustrates the development of seeds and describes the mode of transportation of each type. For intermediate grades and high school.

Sexual reproduction in plants (Filmstrip) DeKalb Agricultural Association, Inc., 1945.
106 fr., color, 35 mm.

Summary: Sexual reproductive system of self-pollinated, cross-pollinated and dioecious plants (farm crops).

Soil and its use (Filmstrip) Eye Gate House, 1952.
20 fr., color, 35 mm. (Science everyday life)

With teacher's manual.
Summary: Shows what soil is and how it is formed. Explains how all living things depend upon the soil, and points out that plants which give us food, clothing materials, and timber, grow in the soil. For elementary grades.

BOTANY

Sugar through the ages (Filmstrip) Sugar Information, Inc. Made by Bill Sturm Studios. Released by Audio-Visual Associates, 1951.
20 fr., color, 35 mm.

With teacher's guide.
Summary: Shows the history and development of the beet and cane sugar industry, from the time sugar was an Indian legend to its present-day importance as a food and natural raw material.

U. S. conservation service (Filmstrip) Eye Gate House, 1951.
20 fr., color, 35 mm. (Plants and gardens)

With teacher's manual.
Summary: Describes the activities of various Government agencies for the preservation of our natural resources and wildlife, and suggests how to cooperate with these programs. Shows foresters, rangers, county agents, home economists and what they do; a forest ranger; the all club; the detection and control of forest fire; reforestation; after fire; camping in a state forest; fish hatcheries; bird sanctuaries, etc.

A vegetable garden (Filmstrip) Eye Gate House, 1951.
20 fr., color, 35 mm. (Plants and gardens)

With teacher's manual.
Summary: Describes the stages of plant growth, various kinds of vegetables and their nutritive value. Shows cabbage, tomatoes, potatoes, corn, peas, lettuce, carrots, spinach, beans, and beets.

A walk in the woods (Filmstrip) Curriculum Films, 1951.
24 fr., color, 35 mm. (Nature study stories)

Eastman color.
Revised version of the 1949 filmstrip.
With teacher's manual.
Summary: Two children and their dog take a typical nature walk. Discusses points of safety, such as knowing where and where not to go, what berries can be eaten, etc. For primary grades.

The woods in autumn (Filmstrip) Eye Gate House, 1951.
25 fr., color, 35 mm. (Plants and gardens)

With teacher's manual.
Summary: Explains that autumn is the time for fruit, and the fruit of the plant contains the seed of new plants. Shows leaves on the ground; raking and burning of leaves; nuts on the ground and in the trees being gathered by squirrels; rose hips; poison ivy leaves; grapes on vines; bitterweed; goldenrod; and mountain ash berries.

The woods in spring (Filmstrip) Eye Gate House, 1951.
20 fr., color, 35 mm. (Plants and gardens)

With teacher's manual.
Summary: Pictures the woods in the spring, and explains the importance of rain and transpiration. Shows new shoots, trailing arbutus, dogwood, mountain laurel, pussywillow, wild strawberry, wild plum, blueberry, birch trees, and maple, oak, elm, and beech leaves; also shows swallows, robins, and sparrows.

The woods in summer (Filmstrip) Eye Gate House, 1951.
20 fr., color, 35 mm. (Plants and gardens)

With teacher's manual.
Summary: Describes hiking and summer camping, and shows different plants and flowers of the summer. Pictures the wild rose, pine trees, oak trees, ferns, moss, lichens, daffodils, dandelions, fruit of the jack-in-the-box, Queen Anne's lace, and buttercup.

CHEMISTRY

CHEMISTRY

Chemistry, set 1 (*Filmstrip*) McGraw-Hill Book Co., 1949.

4 filmstrips, b&w, 35 mm.
Correlated with the book *Chemistry for our times* by Weaver and Foster.
Contents: 1. Kinetic molecular theory, 22 fr.—2. Atomic theory, 45 fr.—3. Chemical formula, 53 fr.—4. Equations, 55 fr.

Chemistry, set 2 (*Filmstrip*) McGraw-Hill Book Co., 1949.

4 filmstrips, b&w, 35 mm.
Correlated with the book *Chemistry for our times* by Weaver and Foster.
Contents: 1. Structure of the atom, 40 fr.—2. Ionization, 42 fr.—3. Acid and basic solutions, 43 fr.—4. Electrolysis, 45 fr.—5. Periodic table, 50 fr.

Chemistry, set 3 (*Filmstrip*) McGraw-Hill Book Co., 1951.

Made by Training Films.
4 filmstrips, b&w, 35 mm.
Correlated with the book *Chemistry for our times* by Weaver and Foster.
Contents: The chemical bond, 50 fr.—Crystals, 52 fr.—Laboratory techniques, 45 fr.—Nuclear energy, 56 fr.—Water purification, 58 fr.—What is chemistry? 54 fr.
Credits: Technical editor, Elbert Cook Weaver, Laurence Stanley Foster.
1. Chemistry, 2. Water-Purification, 3. Water, Elbert Cook Weaver, Elbert Cook Weaver, Elbert Cook Weaver, Inc., 12.
The chemical bond (*Filmstrip*) v. Crystals (*Filmstrip*) v. Laboratory techniques (*Filmstrip*) v. Nuclear energy (*Filmstrip*) v. Water purification (*Filmstrip*) v. What is chemistry? (*Filmstrip*)

Chemistry in action (*Filmstrip*) The Creative Art

Studio, Inc., 1949.

35 fr., color, 35 mm. (Technical Subjects for Higher Teaching).
Summary: How chemistry enters into manufacture of clothing, rugs, paper, explosives, cosmetics, soap, laundry starch, baking powder, plastics, frozen fruit, medicines.

Foundations of chemistry (*Filmstrip*) Society for Visual

Education, 1948.

10 filmstrips, b&w, 35 mm.
Summary: Explains basic terms and formulas, and stresses the use of chemical processes in industry and industry.
Contents: 1. The atmosphere, 62 fr.—2. Carbon and its oxides, 51 fr.—3. Chlorine and its compounds, 43 fr.—4. Laws and theories, 63 fr.—5. Nitrogen and its compounds, 65 fr.—6. Oxygen and hydrogen, 61 fr.—7. Sulphur and its compounds, 63 fr.—8. Water, 68 fr.

Fundamentals of detergents (*Filmstrip*) U. S. Public

Health Service, 1948.

12 fr., b&w, 35 mm. and disc: 1 a, 10 in., 333 rpm, 9 min.
Order no. 5-279.
Summary: Explains the fundamental principles of detergents and their use in cleaning, and points out that detergents may be used for many specific purposes, including softening water, dissolving mineral formation, emulsifying grease, decontaminating soil particles, and decontaminating surfaces.

How we get our gas (*Filmstrip*) Key Productions. Released by Young America Films, 1950.

35 fr., b&w, 35 mm. (Products and industries, set 5)
With teacher's guide.
Summary: Shows how gas is produced and describes its many uses in daily life.

How we get our glass (*Filmstrip*) Key Productions. Released by Young America Films, 1950.

40 fr., b&w, 35 mm. (Products and industries, set 2)
With teacher's guide.
Summary: Traces the steps in the manufacturing of glass, showing how sand, soda, and lime are combined with other raw materials, then melted and refined, molded, drawn, or blown into the desired shapes, annealed and polished. Demonstrates some of the ways in which glass is used. For elementary and high schools.

How we get our plastics (*Filmstrip*) Key Productions. Released by Young America Films, 1950.

40 fr., b&w, 35 mm. (Products and industries, set 2)
With teacher's guide.
Summary: Explains how plastics are made from both natural plant products and synthetic materials. Describes the different types of plastics and shows how they are used. For elementary and high schools.

Origin and synthesis of plastics materials (*Filmstrip*)

U. S. Office of Education, 1945. Produced by Caravel Films.

40 fr., b&w, 35 mm. (Plastics series, set 1)
Order no. GS-490-6.
With instructor's manual. Supplements motion picture of same title.
Summary: Organic origin of plastics and the resemblance of synthetic compounds to natural substances; synthesis of plastics from natural substances; forms in which plastics are produced; and typical plastic products.

DENTISTRY

Dental health for young America (*Filmstrip*) Society for

Visual Education, 1948.

32 fr., b&w, 35 mm. (Dental health, 2)
With manual.
Summary: Points up the importance of good dental health habits by showing how the dentist and the patient can cooperate in the care of teeth.

Diseases of the mouth (*Filmstrip*) U. S. War Dept., 1945.

37 fr., color, 35 mm.
Order no. FS-8-103.
Summary: Shows clinical manifestations of 20 diseases of the mouth, including Vincent's infection, herpes labialis, aphthous ulcer, herpes stomatitis, etc. For medical personnel.

Extra-oral traction appliances: Wooden tongue depressor

traction appliance; metal coat hanger traction appliance (*Filmstrip*) U. S. War Dept., 1942.

34 fr., b&w, 35 mm.
Order no. FS-8-32.
Summary: Demonstrates use of extra-oral traction appliances to clear and maintain air passages blocked by a backward displacement resulting from fractures of the jaw, displaced soft tissue, and loss of control of the tongue. For medical personnel.

Immobilization of fractures: Intra-maxillary wiring; inter-maxillary elastic traction (*Filmstrip*) U. S. War Dept., 1945.

50 fr., b&w, 35 mm.
Order no. FS-8-37.
Summary: Demonstrates the application of wiring and elastic traction for fixation, using a simple and multiple loop wire for the traction. For medical personnel.

Intra and extra oral splints: Splints applied to the teeth (*Filmstrip*) U. S. War Dept., 1942.

50 fr., b&w, 35 mm.
Order no. FS-8-34.
Summary: Illustrates the designing, fabricating, vulcanizing, casting, curing, and properties of various types of oral splints; and shows adjustment and application of vulcanite, silver, and acrylic resin splints. For medical personnel.

A toothsome tale (*Filmstrip*) Dental Health Division, Dept.

of National Health and Welfare, Ottawa. Released by National Film Board of Canada, 1950. Released in the U. S. by Society for Visual Education.

35 fr., color, 35 mm. (Dental health, 3)

Summary: Depicts through cartoons the causes of tooth decay and the measures required to correct decay. For intermediate grades through high school.

Your teeth and your health (*Filmstrip*) Society for Visual

Education, 1947.

56 fr., b&w, 35 mm. (Dental health, 1)
Summary: Shows what a child must do to care for his teeth, what help he can expect from the dentist, and why proper care of the teeth is important to general health.

ENGINEERING

Airplane flight control surfaces and wing flaps (*Filmstrip*)

U. S. Army Air Force, 1942. Released for public educational use through U. S. Office of Education, 1943.

45 fr., b&w, 35 mm.
Order no. FS-1-20.
Summary: Shows and explains the location, construction, and operation of primary and secondary control surfaces of an airplane; and the types, construction, and operation of wing flaps and slats.

Auxiliary views, part 1 (*Filmstrip*) McGraw-Hill Book

Co., 1948.

32 fr., b&w, 35 mm. (Mechanical drawing 1)
Correlated with the book, *Mechanical drawing*, by Thomas E. French.
Summary: Explains and defines auxiliary projection; shows the construction of an auxiliary elevation.

Auxiliary views, part 2 (*Filmstrip*) McGraw-Hill Book

Co., 1948.

34 fr., b&w, 35 mm. (Mechanical drawing 2)
Supplements motion picture of the same title.
Correlated with the book, *Mechanical drawing*, by Thomas E. French.
Summary: Describes three types of single auxiliary, auxiliary elevations, right and left auxiliaries, and front and rear auxiliaries, illustrated by blowup articles with slanting surfaces which require auxiliary views for complete representation.

ENGINEERING

Data and decision series (*Filmstrip*) American Management

Association, 1955.

4 filmstrips, color, 35 mm.

Contents: 1. Data processing and the computer, 66 fr.—2. The computer system, 82 fr.—3. The feasibility study, 84 fr.—4. The electronic frontier in business, 71 fr.

Elements of hardening (*Filmstrip*) U. S. Office of Education, 1945.

40 fr., b&w, 35 mm.
Summary: How steel is quench-hardened; how structure and hardness of steels with different carbon content change at progressive quench-hardening stages; how an iron-carbon diagram is constructed and what it shows.

Elements of surface hardening (*Filmstrip*) U. S. Office

of Education, 1945.

36 fr., b&w, 35 mm.
Summary: How steel is pack carburized and gas carburized; how a thin, hard case is obtained by cyaniding; how nitriding is used to obtain a very hard case; how steel is flame and induction hardened.

Elements of tempering, normalizing and annealing

(*Filmstrip*) U. S. Office of Education, 1945.

31 fr., b&w, 35 mm.
Summary: How steel is tempered; how structure, toughness, and hardness of a plain carbon steel change at progressive tempering stages; how steel is normalized; how steel is annealed; how annealing relieves stresses in steel and softens it.

Engineering drawing series (*Filmstrip*) McGraw-

Hill Book Company, Inc., 1938.

6 filmstrips, b&w, 35 mm.

Contents: 1. Auxiliary views: Double auxiliaries, 26 fr.—2. Auxiliary views: Single auxiliaries, 33 fr.—3. Dimensioning techniques, 43 fr.—4. Orthographic projection, 40 fr.—5. Sections and conventions, 44 fr.—6. Drawings and the shop, 43 fr.

Fuel level gauges (*Filmstrip*) U. S. Army Air Force, 1942.

Released for public educational use through U. S. Office of Education, 1943.

41 fr., b&w, 35 mm.
Order no. FS-1-58.
Summary: Explains the operating principle, maintenance, and inspection procedures for mechanical and electrical gauges used on aircraft.

General principles of the propeller (*Filmstrip*) U. S. Army

Air Force, 1942. Released for public educational use

through U. S. Office of Education, 1944.

31 fr., b&w, 35 mm.
Order no. FS-1-94.
Summary: Explains the principles of the airplane propeller, types of construction, causes of failure, and factors determining shape of blade. Defines thrust, pitch, angle of attack, slip, feathering, and windmilling.

ENGINEERING

Industrial electronics (Filmstrip) The General Electric Company, 1956.

1498 fr., b&w, 35 mm.
Summary: A course on industrial electronics for plant management and electrical and maintenance staffs. Twelve filmstrips, each with record (15 in., 33 1/3 rpm), review booklets (25 in each kit), an instructor's guide and a carrying case, on (1) Increasing the electron; (2) Electronic tube as a vacuum; (3) Grid control of electronic tubes; (4) Fundamentals of electricity; (5) Electronic relay systems; (6) Electronic motor control; (7) Thy-Mo-Trol (Thyatron motor control); (8) The electronic control of A-C Power; (9) Electronic frequency changing; (10) Photoelectric systems; (11) Electronics—Today and Tomorrow.

An introduction to vectors: Coplanar concurrent forces (Filmstrip) U. S. Department of Health, Education and Welfare, U. S. Public Health Service, 1945.
56 fr., b&w, 35 mm.

Localizing troubles (Filmstrip) McGraw-Hill Book Company, Inc., 1953.

44 fr., b&w, 35 mm.
Summary: An intercarrier sound receiver using the fly-back high voltage supply is used as a typical example in explaining how to identify trouble symptoms and localize them in a specific section of the receiver by studying the three indicators present in the receiver: test-meter, picture, and sound.

Measurement with light waves (Filmstrip) U. S. Office of Education, 1944. Produced by Audio Productions.
Order no. OE 374-4.
50 fr., b&w, 35 mm. (Engineering series)
With instructor's manual. Supplements motion picture of same title.
Summary: Principles of measurement with light waves; nature of light waves; cause of interference bands and use of these bands in light wave measurement. Procedures used in gap block inspection-precision measurement. Procedures used in gap block inspection-precision measurement.

Petroleum in today's living (Filmstrip) American Petroleum Institute, 1955.
87 fr., color, 35 mm.
Superscope color version released in 1954.
With teacher's guide.
Summary: A summary of the many ways in which oil and oil products are used in modern civilization.

Principles of gearing: an introduction (Filmstrip) U. S. Office of Education, 1945. Produced by Loucks and Norling Studios.
87 fr., b&w, 35 mm. (Engineering series. Fundamentals of mechanics)
Order no. OE 383-4.
With instructor's manual. Supplements motion picture of same title.
Summary: Friction gears; toothed gears; law of gearing; positive driving; involute profile; pressure angle; cycloid profile; velocity ratios, and circular pitch.

Principles of lubrication (Filmstrip) U. S. Office of Education, 1944. Produced by Graphic Films.

33 fr., b&w, 35 mm. (Engineering series)
Order no. OE 355-4.
With instructor's manual. Supplements motion picture of same title.
Summary: The need for lubrication; properties of lubricants; selection of lubricants; viscosity of lubricants; and conditions that determine proper viscosity.

See for yourself (Filmstrip) Better Light Better Sight Bureau, 1945.

Sound, 15 min., b&w., 35 mm.
Summary: Development of artificial lighting; before-and-after home lighting conditions; effect on family health and safety. Light meter introduced to gauge proper illumination for each seeing task; heavy burden of work human eyes are called upon to do, explained.

The slide rule: proportion, percentage, squares and square roots (Filmstrip) U. S. Office of Education, 1944. Produced by Loucks and Norling Studios.

41 fr., b&w, 35 mm. (Engineering series)
Order no. OE 346-4.
With instructor's manual. Supplements motion picture of same title.
Summary: How to use the "C" and "D" scales of the slide rule to calculate proportions and percentages; how to read the "A" and "B" scales; and how to calculate squares and square roots.

Stability (Filmstrip) Jam Handy Organization, 1942.
50 fr., b&w, 35 mm. (Aircraft mechanics, no. 28)
Summary: Defines and illustrates negative, neutral, and positive stability; airplane positive longitudinal stability; and lateral stability and controlling factors. Discusses corrections to increase stability and relation of loads to stability.

Stresses in an airplane (Filmstrip) Jam Handy Organization, 1942.

54 fr., b&w, 35 mm. (Aircraft mechanics, no. 30)
Summary: Explains the forces and loads on parts of an airplane and the 45-degree and 90-degree triangles; tools and equipment needed and their care; setting up for drawing; reproducing drawings and title block of standard drawing form; use of hands, pencil, triangle, and block of standard drawing form; and the layout of title block.

"T" square and triangles, part 1 (Filmstrip) Jam Handy Organization, 1942.

52 fr., b&w, 35 mm. (Aircraft mechanics, no. 22)
Summary: Discusses the fundamental uses of the "T" square and the 45-degree and 90-degree triangles; tools and equipment needed and their care; setting up for drawing; reproducing drawings and title block of standard drawing form; use of hands, pencil, triangle, and block of standard drawing form; and the layout of title block.

"T" square and triangles, part 2 (Filmstrip) Jam Handy Organization, 1942.

53 fr., b&w, 35 mm. (Aircraft mechanics, no. 23)
Summary: Demonstrates the manipulation of a triangle to obtain angle lines; layout of vertical and horizontal lines; layout of angle lines.

Tachometers and synchronism indicators (Filmstrip) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Office of Education, 1943.

51 fr., b&w, 35 mm.
Order no. FS 1-20.
Summary: Operating principles, inspection, and maintenance procedures for tachometer and generator voltmeter tachometers and engine synchronization indicator on multiple-engine aircraft.

Tension testing (Filmstrip) U. S. Department of Health, Education and Welfare, U. S. Public Health Service, 1944.

42 fr., b&w, 35 mm.
Summary: How a hydraulic tension testing machine operates; how to prepare the machine and a specimen for a test; and conduct the test to determine the specimen's elastic limit, yield point, and ultimate strength.

Theory of operation of the four pole magnets (Filmstrip) Bendix Aviation Corporation, 1943.

GEOGRAPHY

About our earth (Filmstrip) Curriculum Films, 1951.

26 fr., color, 35 mm. (Science I, intermediate series)
Eastman color
Revised version of the 1947 filmstrip.
With teacher's manual.
Summary: Shows the nature and extent of the earth, and points out that only a small portion of the solid and liquid earth and the atmosphere may be encountered in a lifetime.

Age of exploration (Filmstrip) Life, 1950. Produced by Science Pictures.

1 roll, color, 35 mm. (The Spirit)
22 fr., color, 35 mm.
With lecture notes.
Summary: Drawings and photographs are used in describing the voyage of discovery in the 15th and 16th centuries.

Agriculture (Filmstrip) Rand McNally and Society for Visual Education, 1954.

1 roll, color, 35 mm. (The Spirit)
Correlated with the book 'Geography of America people, by Wallace B. McCannell.
Summary: The change in the agricultural situation in the South due to the introduction of new crops, mechanization, and improved farm practices.

Alaska (Filmstrip) Encyclopedia Britannica Films, 1950.

70 fr., b&w, 35 mm. (Our North American neighbors series)
Based on the motion picture Alaska, reservoir of resources.
Summary: Reviews Alaska's geographical features and chief cities; marine resources; indigenous resources of the territory; depicts activities in lumbering, fishing, mining, transportation, agriculture, fur farming, and the tourist trade.

Alaska—the land and its people (Filmstrip) Rand, McNally and Society for Visual Education, 1953.

42 fr., color, 35 mm. (Canada and the Far North)
Correlated with the book Geography of America people, by Wallace B. McCannell.
Summary: Photographs of the life of the people in Alaska. Shows pioneer settlements, villages, and methods of transportation.

GEOGRAPHY

America the beautiful (Filmstrip) Society for Visual Education, 1953.

22 fr., color, 35 mm.
Based on the song by Katherine Lee Bates.
Summary: Photographs of views of America. Each frame illustrates one line of the song with this line printed at the bottom of the picture.

American seashores (Filmstrip) Simon and Schuster. Released by Young America Films, 1955.

173 fr., color, 35 mm. (Golden nature guides)
Issued in 4 sets; pts. 1-2, 41 fr. each; pt. 3, 49 fr.; pt. 4, 42 fr.
With illustrated manual.
Based on Golden nature guide books.
Summary: Presents shells, sea plants, shore birds, and other natural features of American coasts.

The Appalachian Highlands (Filmstrip) Young America Films, 1952. Produced by Key Productions. © Key Productions, Inc.; 1Mar52; JPI250.

47 fr., color, 35 mm. (U. S. regional geography series)
Summary: Photographs of the Appalachian Highlands region, which extends from New York to Georgia. Includes scenes of the Blue Ridge and Tennessee Valleys, and the industrial centers of Pittsburgh, Albany, Atlanta, and Birmingham. Describes the area as an agricultural district as well as the country's most important source of coal and steel.

The Atlantic Plain and Piedmont (Filmstrip) Young America Films, 1953. Produced by Key Productions. © Key Productions, Inc.; 1Mar53; JPI215.

42 fr., color, 35 mm. (U. S. regional geography series)
Summary: Photographs of the Atlantic Plain and Piedmont region, which includes Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware, and New Jersey. Pictures the fertility of land, the rotation of crops to restore the soil after its depletion by tobacco and cotton cultivation, and the development of industry.

The Central Plains (Filmstrip) Young America Films, 1952. Produced by Key Productions. © Key Productions, Inc.; 1Mar52; JPI210.

45 fr., color, 35 mm. (U. S. regional geography series)
Summary: Photographs of the Central Plains region, which includes Minnesota, Iowa, Missouri, Illinois, Indiana, and portions of adjoining states. Describes the mineral fertility of the soil, the abundant rainfall, the long growing season east and west of the Mississippi River Valley, and the variety and extent of crops which have led to the development of food and transportation centers in Kansas City, Minneapolis, and St. Paul.

City people of the Middle West (Filmstrip) Rand McNally and Society for Visual Education, 1954.

60 fr., color, 35 mm. (The Middle West)
Correlated with the book Geography of America people, by Wallace B. McCannell.
Summary: Illustrates various types of locations, sites, industries, and transportation routes that emphasize and explain the characteristics of several cities of the Middle West.

Climate and plants (Filmstrip) Popular Science Pub. Co., 1952.

43 fr., color, 35 mm. (Looking at the earth we live on)
Summary: Discusses the reasons for a variety of climatic conditions in the United States. Shows how plant life is dependent upon climate.

GEOGRAPHY

Coast lands of the Northwest (Filmstrip) Society for Visual Education and Rand McNally, 1954.

34 fr., color, 35 mm. (The West)

Correlated with the book Geography of American peoples, by Wallace R. McCannell.
Summary: Depicts the activities of the people of the Northwest who live near the coast in the Willamette Puget Sound lowland between the Cascade Range and the coast range.

Coastal lands (Filmstrip) Eye Gate House, 1956.

30 fr., color, 35 mm. (Earth, home of man, no. 4)

With teacher's manual.
Summary: Illustrates coastal plains and the effect of oceans on their formation, the effects of rivers on the land, the continental shelf, and other facts related to the coastal lands.

Continents and oceans (Filmstrip) Jam Handy Organization, 1950.

25 fr., color, 35 mm. (Introduction to the globe, no. 1)

Ance color.
Summary: Captions drawings are used in describing the size and shape of the earth, in showing the relationship of land and water, and in identifying the continents and oceans.

The Cornbelt (Filmstrip) Rand McNally and Society for Visual Education, 1954.

50 fr., color, 35 mm. (The Middle West)

Correlated with the book Geography of American peoples, by Wallace R. McCannell.
Summary: Explains why the Middle West is an agricultural region for a variety of crops; discusses farm improvements and techniques, and the influence of agriculture on other economic conditions.

Dry lands of the West: northern section (Filmstrip) Society for Visual Education and Rand McNally, 1954.

30 fr., color, 35 mm. (The West)

Correlated with the book Geography of American peoples, by Wallace R. McCannell.
Summary: Shows a variety of occupations that exist in the dry areas of the Northwest, with emphasis on ranching, mining, and farming.

Dry lands of the West: southern section (Filmstrip) Society for Visual Education and Rand McNally, 1954.

50 fr., color, 35 mm. (The West)

Correlated with the book Geography of American peoples, by Wallace R. McCannell.
Summary: Through typical scenes points out why the dry areas in the Southwest are sparsely populated, and calls attention to the ranches, mines, irrigated farms, and scenery of the region.

The earth (Filmstrip) Encyclopedia Britannica Films, 1953. Made by William P. Gottlieb Co.

47 fr., color, 35 mm. (Primary scenes)

Ance color.
Summary: Captioned drawings are used in showing various geographical features of the earth and in explaining that water, wind, and man are responsible for changes in the earth's surface. Discusses the principle of gravity.

East and south of the Cornbelt (Filmstrip) Rand McNally and Society for Visual Education, 1954.

50 fr., color, 35 mm. (The Middle West)

Correlated with the book Geography of American peoples, by Wallace R. McCannell.
Summary: Describes life in the Cornbelt, the hilly areas south and east of the Corn Belt, and the Blue Grass region of Kentucky.

The Far Western States (Filmstrip) Encyclopedia Britannica Films, 1948.

25 fr., color, 35 mm. (U. S. Regional geography)

Adapted from the motion picture of the same title.
Summary: Describes the Far West as a region of contrasts in climate, topography, and population densities. Depicts such activities as agriculture, industry, commerce, lumbering, and mining. Success interdependent with other regions.

Five great cities (Filmstrip) Rand McNally and Society for Visual Education, 1953.

40 fr., color, 35 mm. (The Northeastern United States)

Correlated with the book Geography of American peoples, by Wallace R. McCannell.
Summary: Pictures New York, Boston, Philadelphia, Baltimore, and Washington; and describes their differences in location, appearance, and industrial and trade activities.

The Great Lakes region (Filmstrip) Young America Films, 1952. Produced by Key Productions. © Key Productions, Inc.; 1Mar52; JF1217.

47 fr., color, 35 mm. (U. S. regional geography series)

Summary: Photographs of the Great Lakes region, which includes Wisconsin, Michigan, and portions of Illinois, Indiana, Ohio, and New York. Shows the rich mineral and agricultural resources, the extensive industrialization, the great inland waterway system, and the commercial centers of the area.

The Great Plains (Filmstrip) Young America Films, 1952. Produced by Key Productions. © Key Productions, Inc.; 1Mar52; JF1218.

41 fr., color, 35 mm. (U. S. regional geography series)

Summary: Photographs of the Great Plains region, a narrow band of land east of the Rocky Mountains, stretching from Canada to Texas. Describes the cattle and sheep ranches of the dry, arid land, the wheat belt of the eastern Great Plains, and the modern methods used to combat erosion and drought in the Dust Bowl.

The Gulf Plains (Filmstrip) Young America Films, 1952. Produced by Key Productions. © Key Productions, Inc.; 1Mar52; JF1221.

41 fr., color, 35 mm. (U. S. regional geography series)

Summary: Photographs of the Gulf Plains region, which extends from Texas to Florida along the Gulf of Mexico. Stresses the influence of nature and of the economy of the area, the resources of natural resources, and the industrial development centered in such cities as New Orleans and Memphis.

High and low lands (Filmstrip) Popular Science Pub. Co., 1952.

40 fr., color, 35 mm. (Looking at the earth we live on)

Summary: Describes the plains and the mountainous regions of the United States, and shows how they are utilized for agriculture.

Hot and cold places (Filmstrip) Jam Handy Organization, 1950.

24 fr., color, 35 mm. (Introduction to the globe, no. 5)

Ance color.
Summary: Captioned drawings are used in explaining how heat from the sun is related to the direction of the sun's rays, in identifying the temperature belts of the earth, and in showing how the temperature affects the lives of people living in the various belts.

Hunting and fishing in summer (Filmstrip) Curriculum Films, 1951.

20 fr., color, 35 mm. (Eskimos of Alaska series)

Eskimo color.
Summary: Shows Eskimos fishing through the ice with a rod and line, using a fish trap, and hunting seals with harpoon and kayak. Shows Eskimo family at their summer camp catch and dry their year's supply of salmon, make and paddle kayaks and umiaks, and join in the village feast of seal and whale.

Hunting and fishing in winter (Filmstrip) Curriculum Films, 1951.

20 fr., color, 35 mm. (Eskimos of Alaska series)

Eskimo color.
Summary: Shows Eskimos fishing through the ice with a rod and line, using a fish trap, and hunting seals with harpoon and kayak.

Islands (Filmstrip) Eye Gate House, 1956.

30 fr., color, 35 mm. (Earth, home of man, no. 6)

With teacher's manual.
Summary: Illustrates types of islands, explains their formation, and lists the largest islands.

Lakes and rivers (Filmstrip) Popular Science Pub. Co., 1952.

42 fr., color, 35 mm. (Looking at the earth we live on)

Summary: How lakes and rivers are formed, and how they benefit man.

Lands of few people (Filmstrip) Rand, McNally and Society for Visual Education, 1953.

51 fr., color, 35 mm. (Canada and the Far North)

Correlated with the book Geography of American peoples, by Wallace R. McCannell.
Summary: Describes the lands known as the Far North; shows changes in life of the Eskimos and Indians and the development of mines, forests, and transportation.

Life in desert lands (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1948.

40 fr., color, 35 mm.

With teacher's guide.
Summary: A pictorial study of the people and geographic character of a hot, dry land. Describes various life—problems of locating water, and of using the camel and other animals and other proper camp sites, of caring for and using the camel and other animals, and of meeting the basic needs of food, shelter, and clothing. For intermediate grades.

Living in New England (Filmstrip) Rand McNally and Society for Visual Education, 1953.

33 fr., color, 35 mm. (The Northeastern United States)

Correlated with the book Geography of American peoples, by W. R. McCannell.
Summary: Shows the natural environmental conditions which the early colonists encountered in New England, and explains how the region developed as an agricultural, fishing, industrial, and trade area.

Major cities of the United States (Filmstrip) Society for Visual Education, 1951.

5 Minutes, color, 35 mm.

Summary: Describes the historic landmarks, leading industries, institutions, and cultures of the major cities of the U. S. Shows the relationship between industries and geographic location. Includes maps. For intermediate grades through middle high school.
Contents: 1. Major cities of western United States. 24 fr.—4. Major cities of the Middle West. 44 fr.—4. Major cities of the South. 60 fr.—4. Major cities of eastern United States. 64 fr.—4. Washington, D. C. 43 fr.

The Middle Atlantic States—their geography (Filmstrip) Popular Science Pub. Co., 1954.

47 fr., color, 35 mm. (The United States—its history and geography)

Ance color.
With teacher's guide.
Summary: Captioned drawings, photographs, and maps describe the rivers, terrain, and other features of the area, showing how they have influenced the development of the Middle States as a densely populated industrial region. Emphasizes the chief cities, and includes brief sections depicting the characteristics and industries of New York, Philadelphia, Pittsburgh, Buffalo, Baltimore, and Washington, D. C., and of the cities in the Shenandoah Valley and northern New Jersey.

The Middle States (Filmstrip) Encyclopedia Britannica Films, 1948.

40 fr., color, 35 mm. (U. S. Regional geography)

Adapted from the motion picture of the same title.
Summary: Emphasizes extent and diversification of agriculture, the varieties of industrial and commercial activities, and the strategic position of the area in the Nation's transportation system. Shows the development of resources in the area and depicts the origin and distribution of its population.

The Middle West—its geography (Filmstrip) Popular Science Pub. Co., 1954.

40 fr., color, 35 mm. (The United States—its history and geography)

Ance color.
With teacher's guide.
Summary: Outlines the physical features of the Middle West, and shows how they combine with the climatic conditions of the area to influence the life of the people, their agriculture, industry, and recreation. Agricultural conditions depict the growing of grain, livestock, and fruit; and industrial scenes include the manufacture and processing of steel, automobiles, food, furniture, and shoes. Captioned photographs, drawings, and maps.

Mountains (Filmstrip) Eye Gate House, 1956.

33 fr., color, 35 mm. (Earth, home of man, no. 7)

With teacher's manual.
Summary: Illustrates mountain peaks, ridges, ranges, and systems; shows how mountains are formed; describes old mountains and young mountains with their differences; shows mountain vegetation, means of transportation, etc.

4 filmstrips, color, 35 mm.

Summary: Maps and views of the national parks in the United States.

Contents: 1. National parks of the Southwest United States. 40 fr.—2. National parks of the Northwest United States. 42 fr.—3. Yellowstone National Park. 40 fr.—4. National parks and monuments of the eastern U. S. 38 fr.

61 fr., color, 85 mm. (The United States—its history and geography)
Anasco color.
With teacher's guide.
Summary: Captioned photographs, drawings, and maps depict New England as an area of three chief regions, each of which is influenced by climatic, soil, and topographical conditions. Shows the southern area as a place of precision industry, textile manufacture, and specialized agriculture; the central area as one of fruit, dairy, and vegetable farms; and of forest-related industry and recreation; and the northern area as one of potato growing, dairying, and stock raising.

⁵ *Summary:* Captioned drawings and an experiment with a globe and a projector are used in explaining the phenomenon of day and night on the earth.

24 fr., color, 35 mm.

With teacher's manual.

Summary: Illustrates geographic features of the North Central States such as the Mississippi, the Black Mountains, and the Ozarks, and discusses many of these features as they were in pioneer days and as they are today.

24, fr., color, 35 mm. (Introduction to the globe, no. 3)
Anso color.
Summary: Captioned drawings are used in locating the equator and poles on a globe, in explaining that the equator and poles are unmarked positions on the earth, and in identifying the four directions.

48 fr., color, 35 mm. (U. S. regional geography series)

Summary: Photographs of the Northeast region, which includes Maine, Vermont, New Hampshire, Massachusetts, Connecticut, and Rhode Island. Shows that the thin, sterile soil and the short, growing season have necessitated specialized farming, and have led to heavy industrialization and the development of the lumber and fish-

70 fr., b&w, 35 mm. (U. S. Regional geography)
Adapted from the motion picture of the same title.
Summary: Shows major geographical, industrial, and social features of the region. Graphic maps with symbols indicate topography, population distribution, extent of industry. Stresses interdependence between the region and the rest of the Nation.

75 fr., bkw, 35 mm. (U. S. Regional geography)

Adapted from the motion picture of the same title.

Summary: Shows how wheat production makes the Northwest the Nation's "breadbasket." Depicts large-scale cattle raising and the lumber and mineral resources. Portrays topography, population distribution, recreational areas, and transportation facilities.

Summary: Presents various facts about the ocean; includes illustrations of ocean transportation from colonial times to the present; shows products of the sea such as fish, sponges, fertilizer, etc.; and discusses tides and currents with their effects on climate and weather.

42 fr., color, 35 mm. (Looking at the earth we live on)
Summary: Describes islands, peninsulas, capes, bays, and other geographical features of oceans and coasts.

68 fr., b&w, 35 mm. (Our earth series, no. 2)
With teacher's guide-index.
Summary: A discussion of the earth's high and low places, how mountains are formed and worn down, and how earthquakes happen.

42 fr., color, 35 mm. (Looking at the earth we live on)

Summary: Shows mountains, plains, rivers, lakes, and harbors in the United States. Includes scenes of the Hudson River, Finger Lakes, Great Lakes, Colorado River, Mississippi River, Rocky Mountains, Appalachian Mountains, and the harbors of New York, San Francisco, and Chicago.

Films, 1952. Produced by Key Productions. © Key Productions, inc.; 13Mar52; JP1214.
44 fr., color, 35 mm. (U. S. regional geography series)

The Pacific Coast States—their geography (*Filmstrip*)
Popular Science Pub. Co. 1954

Summary: Explains how the varied topography and climate of California, Oregon, and Washington have given rise to many kinds of agriculture and industry. Industrial sequences depict the making of processing of aircraft, oil, motion pictures, ships, foods, and forest products. Agricultural scenes include the growing of fruit, cattle, grain, and truck crops. Cantional drawings, photographs, and maps.

1932. Produced by Key Productions. © Key Productions, inc.; 1Mar52; JP1213.
47 fr., color, 35 mm. (U. S. regional geography series)
Summary: Photographs of the sparsely populated Plateau region, which includes Arizona, Idaho, Nevada, Utah, and portions of adjoining states. Describes the mineral deposits, the development of manufacturing, the vast irrigation projects to reclaim the land in the Great Basin, and the national parks of the area.

Based on the article of the same title which appeared in *Life* magazine, Sept. 20, 1964.

Summary: Emphasizes the variety of natural resources and how these have been utilized in the development of the "New South."

70 fr., b&w, 35 mm. (U. S. Regional geography)
Adapted from the motion picture of the same title.
Summary: Portrays the region's people, agriculture, heritage, interdependence with other regions. Maps and pictures analyze topography, agricultural activity, industrial growth, and emphasize industrial progress.

58 fr., color, 33 mm. (The United States, its history and geography)
With teaching guide.
Summary: Locates the Southern States on maps, describes the geographical features of the area, and emphasizes present-day life and interests in the region.

72 fr., b&w, 35 mm. (U. S. Regional geography)
Adapted from the motion picture of the same title.
Summary: Shows industrial and commercial progress and the resources of the area. Contrasts western plateaus and eastern plains. Distribution. *Reel 1.*

33 fr., color, 35 mm. (The United States, its history and geography)
With teaching guide.
Summary: Locates the Southwestern States on maps, describes the geographical features of the area, and emphasizes present-day life.

Released by Society for Visual Education and Long Film-slide Service, 1947.

36 fr. b&w, 35 mm. (Nature study illustrated. Little journeys and weather series)

With manual.

Summary: Tells how glaciers are made, what happens to the earth that a glacier has touched, and how small streams sometimes start from a glacier. Includes scenes of the Nisqually, the great glacier in Mount Rainier National Park. For intermediate grades and high

Subtropical coastal lands and western Texas (Filmstrip)

Summer days (*Filmstrip*) Curriculum Films, 1951.
26 fr., color, 35 mm. (Eaktimos of Alaska series)

-The sun and our seasons (Filmstrip) Jam Handy Organization, 1952.

27 fr., color, 35 mm. (Earth, home of man)

With teacher's manual.

Summary: Describes the surface of the land, reviewing facts about plains, plateaus, valleys, and oceans. Shows the relationship between population and physical features of the earth, and presents other facts.

With teacher's manual.
Correlated with the book *The American continents* (v. 2 of *Man in his world*) by Harrows, Parker, and Sorenson.
Summary: Beginning where the Ohio River flows into the main stream, traces the history of this area from the time of De Soto, the growth of New Orleans, and the changing nature of the river traffic. Shows the importance of rice, the river traffic, and sugar plantations.

Summary: Presents the narrow strip of coastal land leading from New York to Washington, D. C. Locates the rivers, bays, early settlements, roads, canals, and principal cities. Shows how, as transportation improved, the cities grew, and how trade and manufacturing developed.

GEOGRAPHY

Then and now between the western mountains (Filmstrip)

Silver Burdett Co., 1952.
45 fr., color, 35 mm. (Then and now in the United States, A18)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Describes the early settlement of the area between the Rocky and the Sierra Nevada mountain ranges by the Mormons, trappers, traders, and gold and silver miners. Explains that lack of water is still a problem in the area, and shows the important role of dams and modern irrigation methods.

Then and now in California (Filmstrip)

Silver Burdett Co., 1952.
47 fr., color, 35 mm. (Then and now in the United States, A15)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Describes the mission and cattle ranches inhabited by the early settlers of California; explains that the discovery of gold brought new settlers who later developed the oil industry and irrigation farming; shows how the California climate of today are dependent upon the natural resources of the State.

Then and now in Florida (Filmstrip)

Silver Burdett Co., 1952.
48 fr., color, 35 mm. (Then and now in the United States, A11)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Describes the early settlement of Florida during Spanish occupation, the expansion following growth of modern means of transportation, the concentration of population in the cities, and the climate, which is favorable for agriculture and attractive to the tourist trade.

Then and now in New England (Filmstrip)

Silver Burdett Co., 1952.
45 fr., color, 35 mm. (Then and now in the United States, A11)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Traces the history of New England and shows its growth and nature. Traces the history of its exploration and settlement, and shows the modern industry, trade routes, and scenes of the countryside.

Then and now in Texas (Filmstrip)

Silver Burdett Co., 1952.
47 fr., color, 35 mm. (Then and now in the United States, A12)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Traces the history of Texas under Spanish and Mexican rule, as a republic, and as a part of the United States. Pictures the ranches, farms, oil wells, and cities of the State.

Then and now in the Appalachian Mountains (Filmstrip)

Silver Burdett Co., 1952.
45 fr., color, 35 mm. (Then and now in the United States, A3)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Traces the history of the Appalachian Mountains, shows the settlements, traces the development of industry in the area, points out the role of the early fur trade, and pictures modern transportation and industry to show the importance of the area to present-day life.

Then and now in the Corn Belt (Filmstrip)

Silver Burdett Co., 1952.
45 fr., color, 35 mm. (Then and now in the United States, A5)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Presents the Corn Belt, showing how it has grown with America from a land of Indians to a land of farms, towns, and cities. Explains that the area depends largely on corn and on modern machinery used on the farms. Includes air views.

Then and now in the Cotton Belt (Filmstrip)

Silver Burdett Co., 1952.
45 fr., color, 35 mm. (Then and now in the United States, A5)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Locates the old states in the Cotton Belt, traces the growth of cotton culture, shows the role of cotton in the pre-Civil War period, depicts life on a cotton farm, deals with the problem of southern agriculture, and shows how cotton is used in the local mills and exports.

Then and now in the Midwest dairy lands (Filmstrip)

Silver Burdett Co., 1952.
44 fr., color, 35 mm. (Then and now in the United States, A5)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Shows that the Dairy Belt, a hilly, forest-covered land with many streams and lakes, stretching from Minnesota across to Iowa, Michigan, and Ohio, changed from a far trading region to a land of dairy farming. Shows the modern farms growing peaches and vegetables; the importance of forests; the development of textile mills; and the culture of the people.

Then and now in the Old South (Filmstrip)

Silver Burdett Co., 1952.
45 fr., color, 35 mm. (Then and now in the United States, A7)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Shows that the Dairy Belt, a hilly, forest-covered land with many streams and lakes, stretching from Minnesota across to Iowa, Michigan, and Ohio, changed from a far trading region to a land of dairy farming. Shows the modern farms growing peaches and vegetables; the importance of forests; the development of textile mills; and the culture of the people.

Then and now in the Pacific Northwest (Filmstrip)

Silver Burdett Co., 1952.
47 fr., color, 35 mm. (Then and now in the United States, A16)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Traces the history of the Pacific Northwest. Describes the Oregon Trail, the mining of the area, the effect of the gold rush, and the area as it appears today.

Then and now in the Rocky Mountains (Filmstrip)

Silver Burdett Co., 1952.
47 fr., color, 35 mm. (Then and now in the United States, A13)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Describes the settlement of the Rocky Mountains region since its purchase from France as part of the Louisiana Purchase of 1803. Explains how this region has attracted traders, miners, ranchers, farmers, and tourists.

Then and now in the Southwest (Filmstrip)

Silver Burdett Co., 1952.
45 fr., color, 35 mm. (Then and now in the United States, A17)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Traces the history of the Southwest. Describes the original Indian inhabitants of the area, the importance of the Santa Fe Trail, the coming of the railroads, the growth of mining and mining, and Indian life today.

Then and now in the Tennessee Valley (Filmstrip)

Silver Burdett Co., 1952.
47 fr., color, 35 mm. (Then and now in the United States, A10)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Contrasts the conditions in the Tennessee Valley before and after the construction of dams and electric power plants by the Tennessee Valley Authority.

Then and now on the Great Lakes Waterway (Filmstrip)

Silver Burdett Co., 1952.
45 fr., color, 35 mm. (Then and now in the United States, A4)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Shows where the Great Lakes are, why they were important to our country, and how they have influenced our nation's growth. Traces the rise of Detroit, Chicago, Duluth, and Cleveland, and the growth of the great inland waterways.

Then and now on the Great Plains (Filmstrip)

Silver Burdett Co., 1952.
45 fr., color, 35 mm. (Then and now in the United States, A14)
With teacher's manual.
Correlated with The American continents (v. 2 of Man in his world) by Harrow, Parker, and Sorenson.
Summary: Describes the early settlement of the Great Plains area. Shows how the early settlers were forced to build buffalo hides; explains that the area is noted today for its wealth in grain, stock, and oil. Emphasizes the importance of preserving soil erosion and conserving all water resources.

This earth of ours (Filmstrip)

Eye Gate House, 1955.
27 fr., color, 35 mm. (Earth, home of man, no. 1)
With teacher's manual.
Summary: Illustrates the site of the earth and its geographic features, shows the relation of the earth to the sun, and presents a general outline of important facts about the earth.

The United States: a regional overview (Filmstrip)

Young America Films, 1955. Produced by Key Productions.
© Key Productions, Inc.; 1955; JF1212.
50 fr., color, 35 mm. (U. S. regional geography series)
Summary: Describes the types of people and the variety of climate, resources, and industries found in the nine regions of the United States.

GEOGRAPHY

United States regional geography (Filmstrip)

Society for Visual Education, 1950.
10 filmstrips, color, 35 mm.
Summary: Outlines the physical features of the United States, and describes the agriculture, industries, and the activities of the people. For intermediate grades through senior high school.
Contents: 1. Northwestern States: Main activities. 54 fr.-2. Northwestern States: Physical characteristics. 55 fr.-3. Southwestern States: Physical characteristics. 56 fr.-4. Southern States (western): Main activities. 57 fr.-5. Southern States (western): Physical characteristics. 58 fr.-6. Southern States (eastern): Main activities. 59 fr.-7. Southern States (eastern): Physical characteristics. 60 fr.-8. Central States (western): Main activities. 61 fr.-9. Central States (western): Physical characteristics. 62 fr.-10. Central States (eastern): Main activities. 63 fr.-11. Central States (eastern): Physical characteristics. 64 fr.-12. Middle Atlantic States: Main activities. 65 fr.-13. Middle Atlantic States: Physical characteristics. 66 fr.-14. New England States: Main activities. 67 fr.-15. New England States: Physical characteristics. 68 fr.

Up and down (Filmstrip)

Jam Handy Organization, 1952.
50 fr., color, 35 mm. (Introduction to the globe, no. 2)
Anno color.
Summary: Captioned drawings are used in explaining the earth's suspension in space, in demonstrating the force of gravity, and in showing how the meaning of up and down is related to the center of the earth.

Uplands and plateaus (Filmstrip)

Eye Gate House, 1955.
27 fr., color, 35 mm. (Earth, home of man, no. 3)
With teacher's manual.
Summary: Illustrates the difference between uplands and plateaus, showing advantages and disadvantages of each with relation to farming, manufacturing, living conditions, etc.

Valley regions of the Northeast (Filmstrip)

Rand McNally and Society for Visual Education, 1951.
51 fr., color, 35 mm. (The Northeastern United States)
Correlated with the book Geography of American people, by W. H. McDowell.
Summary: Pictures the Hudson-Mohawk Valley route with its numerous cities, and a route through valleys of northeastern Pennsylvania to Pittsburgh. Shows manufacturing on a large scale, and points out many differences between the two industrial regions.

Valleys and coast lands of California (Filmstrip)

Society for Visual Education and Rand McNally, 1951.
60 fr., color, 35 mm. (The West)
Correlated with the book Geography of American people, by W. H. McDowell.
Summary: Depicts life in the productive valleys and coast lands of California, including the Great Valley. Shows how the mountains affect the climate and industries in these regions.

Weather and the seasons (Filmstrip)

Popular Science Pub. Co., 1952.
44 fr., color, 35 mm. (Looking at the earth we live on)
Summary: How sun, water, and wind affect seasonal changes in temperature, and how the seasons vary in different sections of the United States.

GEOGRAPHY

West and north of the Cornbelt (*Filmstrip*) Rand McNally and Society for Visual Education, 1934.

60 fr., color, 35 mm. (The Middle West)

Correlated with the book *Geography of American peoples*, by Walter H. Hooton.

Summary: Describes the dairy, wheat, lumbering, and fruit-growing regions in Minnesota, Wisconsin, and Michigan; and the wheat regions west and southwest of the Corn Belt.

The Western United States, its geography (*Filmstrip*) Popular Science Pub. Co., Audio-Visual Division, 1934.

33 fr., color, 35 mm. (The United States, its history and geography)

With teacher's guide.

Summary: Lectures the Western States on maps, describes the geographical features of the area, and emphasizes present-day life and industry in the region.

Where East and South meet (*Filmstrip*) Rand McNally and Society for Visual Education, 1933.

33 fr., color, 35 mm. (The Southeastern United States)

Correlated with the book *Geography of American peoples*, by W. R. McConnell.

Summary: Presents a variety of agricultural landscapes in the Atlantic Coastal Plain, the Piedmont, and Appalachian Mountains; and picture taking, shipping, and shipping activities in the Chesapeake Bay area.

Where man lives (*Filmstrip*) Eye Gate House, 1956.

34 fr., color, 35 mm. (Earth, home of man, no. 2)

With teacher's manual.

Summary: Shows the various environments of man throughout the world, causes of increase and decrease in population, types of work done by man in relation to his environment, etc.

Winter days (*Filmstrip*) Curriculum Films, 1931.

23 fr., color, 35 mm. (Exhibition of Alaska series)

Kastman color.

Summary: Features the daily life of Nook, an Eskimo boy, who fetches water with his own dog team, goes to school, and plays in the biggest snow bank in the village.

GEOGRAPHY—Maps

Economic geography maps (*Filmstrip*) Young America Films, 1934.

24 fr., color, 35 mm. (Map series)

With teacher's guide.

Summary: Describes various kinds of maps, explains why they are important, and shows how to use them. For intermediate and junior high school grades.

Concrete: 1. Maps and their uses. 2. Maps as a source of information. 3. Maps as a source of information. 4. Maps as a source of information.

Exploring through maps (*Filmstrip*) Popular Science Pub. Co., Audio-Visual Division, in cooperation with World Book Encyclopedia, 1945.

4 filmstrips, b&w (pt. 1 in color) 35 mm.

With teacher's guide.

Summary: Describes various kinds of maps, explains why they are important, and shows how to use them. For intermediate and junior high school grades.

Concrete: 1. Maps and their uses. 2. Maps as a source of information. 3. Maps as a source of information. 4. Maps as a source of information.

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Concrete: 1. Maps and their uses. 2. Maps as a source of information. 3. Maps as a source of information. 4. Maps as a source of information.

Let's look at maps (*Filmstrip*) Virginia State Board of Education. Produced and released by Virginia Dept. of Education, 1932.

65 fr., color, 35 mm.

Summary: Explains map reading and geography for the elementary grades by relating symbols on the map of Virginia to the kinds of country they represent.

Outline maps (*Filmstrip*) Young America Films, 1935.

29 fr., b&w, 35 mm. (Map series)

With teacher's guide.

Summary: Presents twelve basic outline maps of the world, its continents, etc.; the United States (with rivers); Canada (with rivers); North and South America; the Mediterranean area; the world, etc.

GEOGRAPHY—Navigation

Aerial navigation: Radius of action returning to alternate or moving base (*Filmstrip*) U. S. Army Air Forces, 1942.

Released for public educational use through U. S. Office of Education, 1943.

16 fr., b&w, 35 mm.

Order no. FS 1-63.

Summary: Presents and solves through the development of a factor diagram a problem concerning radius of action returning to alternate base. Explains the effect of changes in data upon the problem solution.

Aerial navigation: Radius of action returning to same base (*Filmstrip*) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Office of Education, 1943.

17 fr., b&w, 35 mm.

Order no. FS 1-67.

Summary: Defines radius of action; explains the factors determining radius of action; and demonstrates mathematical formulas used in plotting radius of action returning to same base.

GEOLOGY

The changing face of the earth, pt. A: How the earth's surface changes (*Filmstrip*) Charles Scribner's Sons, 1934.

27 fr., color, 35 mm.

Kastman color.

With teacher's guide.

Summary: Describes three known causes of the folding of land to form mountains; illustrates how volcanoes change the earth's surface; describes earthquake fault lines and shows how earthquakes occur; explains how ice, water, and wind erosion produce external changes to the earth's surface.

The changing face of the earth, pt. B: Demonstrating changes in the earth's surface (*Filmstrip*) Charles Scribner's Sons, 1934.

30 fr., color, 35 mm.

Kastman color.

With teacher's guide.

Summary: Describes some of the forces that cause the earth's surface to change; explains the action of a volcano; describes the movement of rock layers along a fault line; explains the action of a glacier; illustrates by simple experiments how erosion by water and ice can affect the earth's surface.

The changing surface of our earth (*Filmstrip*) Young America Films, 1933.

50 fr., color, 35 mm. (Elementary science series. Set no. 4)

Kastman color.

Summary: Captions drawings and cartoons are used to show that the earth's surface is constantly changing as the result of erosion and sub-surface pressure. Explains the action of the main forces of erosion—wind, sand, glaciers, ground water, and running water. Shows how land is built up by surface folding, volcanoes, rising plateaus, and deposited soil.

Desert rocks and minerals (*Filmstrip*) Pat Dowling Pictures, 1955.

30 fr., color, 35 mm.

Kastman color.

Summary: Describes the natural wealth of desert areas. Includes scenes showing gold, silver, copper, and limestone ore and petroleum and boron deposits, and explains their importance to daily living. Explains how the apatite, feldspar, and quartz are located in the rocks and minerals of the desert. Captioned photographs.

How rocks are formed (*Filmstrip*) Jam Handy Organization, 1947.

60 fr., b&w, 35 mm. (Our earth series, no. 3)

With teacher's guide.

Summary: Presents the story of igneous, sedimentary, and metamorphic rocks, and explains how they are formed.

How we get our oil (*Filmstrip*) Key Productions. Released by Young America Films, 1950.

44 fr., b&w, 35 mm. (Products and industries, set 2)

With teacher's guide.

Summary: Shows how oil is located in the ground, how the well is dug, and how the oil is transported to the refinery. Points out many products derived from oil. For elementary and high schools.

Men of the old stone age (*Filmstrip*) Society for Visual Education, 1948.

25 fr., color, 35 mm. (The story of the development of man)

Summary: Gives the geological age and an explanation of judging the age of remains.

Oil: From earth to you (*Filmstrip*) American Petroleum Institute, 1955.

25 fr., color, 35 mm.

Summary: A survey on the production of oil and oil products. Includes geological formation of oil, prospecting, recovery, refining, and distribution.

Our changing earth (*Filmstrip*) Curriculum Films, 1951.

30 fr., color, 35 mm. (Science 1, intermediate series)

Kastman color.

Summary: Revised version of the 1947 filmstrip.

Summary: Explains that the earth's surface is constantly being worn down and built up by wind, rain, ice, etc. Points out that these forces have been at work for countless years and have produced great changes.

The rocks around us (*Filmstrip*) Popular Science Pub. Co., 1954.

40 fr., color, 35 mm. (Nature study)

Kastman color.

With teacher's guide.

Summary: Captions photographs and drawings guide elementary pupils to an understanding of the formation of rocks and fossils, the different kinds of rocks, the formation of caves, and the uses of rocks in building and in making roads and concrete.

The soil (*Filmstrip*) Jam Handy Organization, 1947.

60 fr., b&w, 35 mm. (Our earth series, no. 5)

With teacher's guide.

Summary: Points out the importance of soil; shows where soil comes from; describes the kinds of soil; and explains soil conservation.

The story of ice and glaciers (*Filmstrip*) Encyclopedia Britannica Films, 1953.

62 fr., color, 35 mm. (The earth and its wonders)

Kastman color.

Summary: Explains that freezing and thawing help to wear away soil and rock; shows how glaciers are formed and how they affect the land over which they move; describes how great continental glaciers changed broad areas of land during the ice age. Captioned paintings.

The story of mountains (*Filmstrip*) Encyclopedia Britannica Films, 1953.

60 fr., color, 35 mm. (The earth and its wonders)

Kastman color.

Summary: Explains that the surface of the earth is ever changing. Shows how the sea helps to make rock, how mountain ranges are formed, how earthquakes are caused, and how the movements of the earth's crust may be helpful or harmful. Captioned paintings.

The story of the air (*Filmstrip*) Encyclopedia Britannica Films, 1953.

50 fr., color, 35 mm. (The earth and its wonders)

Kastman color.

Summary: Explains that the atmosphere in motion enables ice and water to alter the earth's surface, that changes in temperature help tear down rocks and that winds carrying dust and sand, change the land. Captioned paintings.

The story of the rivers (*Filmstrip*) Encyclopedia Britannica Films, 1953.

54 fr., color, 35 mm. (The earth and its wonders)

Kastman color.

Summary: Explains the origin and growth of streams, the causes of soil erosion, and the reasons for changes in the characteristics of rivers. Explains that rivers are both harmful and beneficial to man. Captioned paintings.

The story of underground water (*Filmstrip*) Encyclopedia Britannica Films, 1953.

52 fr., color, 35 mm. (The earth and its wonders)

Kastman color.

Summary: Describes what the water table is, what makes artesian wells, and what causes hot springs and geysers. Explains how caves are formed and how ground water brings together rich deposits of minerals. Captioned paintings.

GEOLOGY

The story of volcanoes (*Filmstrip*) Encyclopedia Britannica Films, 1953.

54 fr., color, 35 mm. (The earth and its wonders)

Eastman color.

Summary: Describes the structure of the earth's interior, the structure and action of magma, the cause of volcanoes, the variations in volcanic behavior, the formation of cones, and the harmful and beneficial effects of volcanic action. Captioned paintings.

Volcanic origin and growth (*Filmstrip*) Pat Dowling Pictures, 1951.

32 fr., b&w, 35 mm.

GEOLOGY—Metallurgy

Changing ores into metals (*Filmstrip*) Film Strip-of-the-Month Club, 1955. Released by McGraw-Hill Book Co.

47 fr., color, 35 mm.

Auto color.

With teaching guide. Summary: Describes the important minerals that make up metallic ores; explains the process used to reduce iron ore to iron; shows the steps used in refining copper and other non-ferrous metals; shows the conversion of ores of precious metals into metal and describes the refining of tungsten and uranium ores. Captioned drawings.

How we get our aluminum (*Filmstrip*) Key Productions. Released by Young America Films, 1950.

44 fr., b&w, 35 mm. (Products and industries, set 1)

Eastman color.

With teacher's guide. Summary: Shows how bauxite deposits are located; how bauxite is mined, refined, and converted into aluminum; how aluminum alloys are produced and how aluminum products are used. For elementary and high schools.

GEOLOGY—Mining

Coal, where we find it and how we mine it (*Filmstrip*) Society for Visual Education, 1949.

50 fr., b&w, 35 mm. (Manufacturing and mining)

With manual.

Summary: Illustrates the important steps in coal production in their natural sequence.

Digging for the earth's treasures (*Filmstrip*) Film Strip-of-the-Month Club, 1955. Released by McGraw-Hill.

54 fr., color, 35 mm.

Auto color.

With teaching guide. Summary: Presents common objects made of metals; describes how miners remove minerals from the ground; emphasizes the value of gold; and explains the uses made of copper and aluminum. Captioned drawings.

How we get our coal (*Filmstrip*) Key Productions. Released by Young America Films, 1950.

42 fr., b&w, 35 mm. (Products and industries, set 1)

With teacher's guide.

Summary: Shows how coal is mined and prepared for sale to the consumer.

GEOLOGY—Paleontology

The story of mammals (*Filmstrip*) John A. Hasseler. Released by Encyclopedia Britannica Films, 1953.

60 fr., color, 35 mm. (Prehistoric life, no. 6)

Eastman color.

Produced in cooperation with the American Museum of Natural History, New York. Summary: Photographs are used to show the evolution of meat-eating and plant-eating mammals which have become extinct or have evolved into modern animals. Includes skeletons of the horse and the elephant showing various stages of their evolution.

Animals of long ago (*Filmstrip*) Curriculum Films, 1951.

31 fr., color, 35 mm. (Science 1, intermediate series)

Eastman color.

Revised version of the 1947 filmstrip. With teacher's manual. Summary: Explains that fossils and bones lead scientists to think that the earth was dominated in turn by the simplest animals, by the earliest animals, by air-breathing animals, by reptiles and birds, and finally by mammals.

The coming of reptiles (*Filmstrip*) John A. Hasseler. Released by Encyclopedia Britannica Films, 1953.

54 fr., color, 35 mm. (Prehistoric life, no. 3)

Eastman color.

Produced in cooperation with the American Museum of Natural History, New York. Summary: Discusses the periods in which fish and amphibians were the dominant forms of life. Photographs of fossils are used in reconstructing the evolution of early fish, lobe-fish, amphibians, and reptiles, and in tracing their evolution.

Discovering fossils (*Filmstrip*) John A. Hasseler. Released by Encyclopedia Britannica Films, 1953.

51 fr., color, 35 mm. (Prehistoric life, no. 1)

Eastman color.

Produced in cooperation with the American Museum of Natural History, New York. Summary: Shows how records of plants and animals have been preserved as fossils for millions of years and how they are discovered by paleontologists. Demonstrates how fossils are used in reconstructing North American mammals and man that lived 15,000 years ago.

Man of long ago (*Filmstrip*) Curriculum Films, 1951.

31 fr., color, 35 mm. (Science 1, intermediate series)

Eastman color.

Revised version of the 1947 filmstrip. With teacher's manual. Summary: Explains that traces of ancient man provide scientists with clues to early man's way of life, his adaptation to his environment, and the steps in his development towards civilization.

The rise of dinosaurs (*Filmstrip*) John A. Hasseler. Released by Encyclopedia Britannica Films, 1953.

57 fr., color, 35 mm. (Prehistoric life, no. 4)

Eastman color.

Produced in cooperation with the American Museum of Natural History, New York. Summary: Exhibits in museums are used in showing various dinosaurs that evolved from primitive reptiles to dominate the earth during the Triassic, Jurassic, and Cretaceous periods. Describes the size, feeding habits, and habitat of different species of dinosaurs.

The story fossils tell (*Filmstrip*) John A. Hasseler. Released by Encyclopedia Britannica Films, 1953.

61 fr., color, 35 mm. (Prehistoric life, no. 2)

Eastman color.

Produced in cooperation with the American Museum of Natural History, New York. Summary: Shows how fossils reveal the age of the earth. Demonstrates how bones of an extinct animal are assembled and how a picture of the animal is created. Explains where fossils are found and shows how they reveal descriptions of inventiveness and early plant life on the earth.

The story of the earth we find in the rocks (*Filmstrip*) Jam Handy Organization, 1947.

57 fr., b&w, 35 mm. (Our earth series, no. 4)

With teacher's guide.

Summary: Discusses fossil formations and how the earth's history is found in rock layers; and presents the story of living things found in rocks.

Triumph of the dinosaurs (*Filmstrip*) John A. Hasseler. Released by Encyclopedia Britannica Films, 1953.

54 fr., color, 35 mm. (Prehistoric life, no. 2)

Eastman color.

Produced in cooperation with the American Museum of Natural History, New York. Summary: Exhibits in museums are used in describing the physical characteristics, habits, and evolution of meat-eating dinosaurs, duck-billed dinosaurs, and plant-eating dinosaurs during the Cretaceous period. Traces the evolution of mammals from the primitive reptiles of the pre-dinosaur period to the close of the Cretaceous period.

MATHEMATICS

Mathematics, set 1 (*Filmstrip*) McGraw-Hill Book Co., 1951.

6 filmstrips, b&w, 35 mm.

Correlated with the book Mathematics, a first course, by Rouseph, Allen, and Beyer. Contains: 1. Thinking in symbols. 27 fr.—2. Grouping symbols and order of operations. 31 fr.—3. Geometric figures. 29 fr.—4. Mensuration. 55 fr.—5. Variables and coordinates. 31 fr.—6. Mathematics in daily living. 22 fr.

Mathematics, set 2 (*Filmstrip*) McGraw-Hill Book Co., 1951.

6 filmstrips, b&w, 35 mm.

Correlated with the book Mathematics, a first course, by Rouseph, Allen, and Beyer. Contains: 1. Mathematics in aviation: The compass. 32 fr.—2. Mathematics in aviation: Wind drift. 30 fr.—3. Indirect measurement. 53 fr.—4. Systems of equations. 30 fr.—5. The slide rule, part 1. 24 fr.—6. The slide rule, part 2. 27 fr.

MATHEMATICS—Algebra

MATHEMATICS—Algebra

Addition & subtraction of signed numbers (*Filmstrip*) Society for Visual Education, 1948.

40 fr., b&w, 35 mm. (Algebra series, 8)

Summary: Explains, by means of a series of illustrations in simple language, the basic concepts involved in the addition and subtraction of signed numbers.

The arithmetic of algebra (*Filmstrip*) Jam Handy Organization, 1944.

40 fr., b&w, 35 mm. (Light on mathematics, kit 3: Algebra, no. 4)

Summary: Covers variables and quantities, the applying of the fundamental processes, and factoring.

Equations (*Filmstrip*) Society for Visual Education, 1948.

54 fr., b&w, 35 mm. (Algebra series, 5)

Summary: Explains, by the use of diagrams and pictures, what equations are, how they are solved, and where they are used. Shows the application of the addition, multiplication, subtraction, and division axioms in the solving of equations.

Equations and formulas (*Filmstrip*) Jam Handy Organization, 1944.

43 fr., b&w, 35 mm. (Light on mathematics, kit 3: Algebra, no. 5)

Summary: Presents simple equations explaining what they mean and how they are solved. Shows the multiple use of formulas and how transposition is a time-saver for formula users.

Exponents and logarithms (*Filmstrip*) Jam Handy Organization, 1944.

87 fr., b&w, 35 mm. (Light on mathematics, kit 3: Algebra, no. 3)

Summary: Describes the properties, variety, and usefulness of the powerful "little numbers." Visualizes powers and roots and their relationship to fractions and factors. Shows how to speed up arithmetic and logarithms.

Formulas (*Filmstrip*) Society for Visual Education, 1948.

52 fr., b&w, 35 mm. (Algebra series, 4)

Summary: Explains, by a series of original diagrams and photographs from real life, the basic mathematical concepts involved in the understanding and use of formulas. A variety of applications in our modern industrial world points out the importance of formulas.

Graphs (*Filmstrip*) Society for Visual Education, 1948.

51 fr., b&w, 35 mm. (Basic algebra series)

Summary: Shows the relationship between pictorial representation and graphs, and explains how to draw and use graphs. For junior and senior high schools.

Introduction to algebra (*Filmstrip*) Society for Visual Education, 1948.

44 fr., b&w, 35 mm. (Algebra series, 1)

Summary: Calls attention to the similarities between arithmetic and algebra. Shows by diagrams how algebra is a language of signs and symbols, many of which are used in arithmetic.

MATHEMATICS—Algebra

Introduction to signed numbers (Filmstrip) Society for Visual Education, 1948.

30 fr., b&w, 35 mm. (Algebra series, 3)

Summary: Shows, by diagrams and pictures, that signed numbers are a convenient method of indicating opposite values. The use of them in bank, in the financial section of newspapers, to indicate temperature above and below zero, makes the whole concept of signed numbers clearly related to life.

Multiplication & division of signed numbers (Filmstrip) Society for Visual Education, 1948.

40 fr., b&w, 35 mm. (Algebra series, 7)

Summary: Explains, by means of a series of original illustrations, the mathematical concepts involved in the multiplication and division of signed numbers.

Positive and negative numbers (Filmstrip) Jam Handy Organization, 1944.

80 fr., b&w, 35 mm. (Light on mathematics, kit 3: Algebra, no. 3)

Summary: Visualizes the "well-known positives" and the "helpful negatives" numbers, and shows how they influence each other in our mathematical operations. Explains the realm of the negative and its contribution to mathematical science.

Problem analysis (Filmstrip) Jam Handy Organization, 1944.

45 fr., b&w, 35 mm. (Light on mathematics, kit 3: Algebra, no. 3)

Summary: How to "take up" a problem. Covers surveying the information, completing the picture, and analyzing the results.

Ratio and proportion (Filmstrip) Jam Handy Organization, 1944.

50 fr., color, 35 mm. (Light on mathematics, kit 3: Algebra, no. 2)

Summary: Visualizes what is meant by ratio and proportion, and shows how these forms help in everyday situations.

MATHEMATICS—Arithmetic

Adding and subtracting decimals (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Decimals and percentage series)

Eastman color.
Revised version of the 1949 filmstrip.
With teacher's manual.
Summary: Explains that in adding or subtracting decimals the decimal points must be placed directly under each other, and that common sense can help students avoid errors in their computations. Through examples from familiar uses of decimals, brings out the point that the student must train himself to check on the reasonableness of his answers.

Adding fractions (Filmstrip) Curriculum Films, 1951.

30 fr., color, 35 mm. (Fractions series)

Eastman color.
Revised version of the 1949 filmstrip.
With teacher's manual.
Summary: Explains that objects can be added only if they are the same kind of objects, relates this concept to fractions, and shows that dissimilar fractions can be added.

Addition and subtraction (Filmstrip) Jam Handy Organization, 1944.

30 fr., b&w, 35 mm. (Light on mathematics, kit 1: Arithmetic, no. 2)

Summary: Describes the scope of addition and subtraction, decimal points, carry-over, unit borrowing, anticipation of results, simple computing methods, and checks for accuracy.

Addition and subtraction concepts (Filmstrip) Eye Gate House, 1950.

26 fr., color, 35 mm. (Work and play with numbers)

With teacher's manual.
Summary: Presents the adding and subtracting processes for the numbers 1 through 9. Explains the concept of reduction to subtracting through the "take-away" method. For primary and elementary grades.

Addition and subtraction of fractions (Filmstrip) Jam Handy Organization, 1944.

47 fr., b&w, 35 mm. (Light on mathematics, kit 1: Arithmetic, no. 5)

Summary: Explains unlike units and like units, common denominators and their usefulness, mixed numbers, short cuts, and anticipation of results.

Addition combinations (Filmstrip) Society for Visual Education, 1952.

4 filmstrips, b&w, 35 mm. (Basic numbers speed-4-strip series)

With teacher's manual.
Summary: Exercises to develop skill in the recognition of numbers, teach basic number combinations, test achievement in number skills, improve eye-hand-brain coordination and visual memory, and increase eye span. May be used with or without tachistoscope.
Contents: 1) Fifteen easiest combinations. 35 fr.—2) Thirty easy combinations. 45 fr.—3) Fifteen more combinations. 45 fr.—4) Thirty-six more combinations. 77 fr.

Advancing in simple addition (Filmstrip) Society for Visual Education, 1955.

47 fr., color, 35 mm. (Using and understanding numbers: Grade two)

Summary: Uses captioned illustrations of common everyday objects to develop fundamental number concepts, to aid in the recognition of numbers in small groups of concrete objects, and to present practice problems in simple addition.

Advancing in simple subtraction (Filmstrip) Society for Visual Education, 1955.

43 fr., color, 35 mm. (Using and understanding numbers: Grade two)

Summary: Uses captioned illustrations of common everyday objects to develop fundamental number concepts. Shows simple subtraction problems with concrete objects and subtraction combinations in relationship to articles familiar to children.

Arithmetical concepts (Filmstrip) Eye Gate House, 1950.

26 fr., color, 35 mm. (Work and play with numbers)

With teacher's manual.
Summary: Explains that a number, although definite and specific, results from experiencing indistinct quantitative and comparative relationships like "big" and "tall." Develops such nonarithmetic concepts and vocabulary by illustration, use, and application. Relates these indistinct relationships to distance, size, shape, time, place, and quantity. For primary and elementary grades.

Common denominators (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Fractions series)

Eastman color.
Revised version of the 1949 filmstrip.
With teacher's manual.
Summary: Reviews the need for finding a common denominator to add or subtract two fractions with different denominators. Explains how to find a common denominator that is different from any denominator of the fractions to be added or subtracted.

Comparing decimals (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Decimals and percentage series)

Eastman color.
Revised version of the 1949 filmstrip.
With teacher's manual.
Summary: Demonstrates how to compare decimals with the same number of places and decimals with uneven numbers of places. Colors are used in comparing the digits in the highest place first, then the next highest place, etc. Gives several examples in comparing and computing batting averages as an application of comparing decimals.

Comparing fractions (Filmstrip) Jam Handy Organization, 1950.

20 fr., color, 35 mm. (Introduction to fractions, no. 5)

With teacher's guide-index.
Summary: Compares the fractional parts in single objects and in a group of objects to show the relative value of fractions. For elementary grades.

Compound subtraction (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1947.

44 fr., color, 35 mm. (Primary arithmetic, no. 4)

With teacher's guide.
Summary: Tells how to add for a class puppet show are used to illustrate problems in subtraction.

Counting by 10's to 30 (Filmstrip) Encyclopedia Britannica Films, 1948.

30 fr., b&w, 35 mm. (Using numbers)

Summary: Deals with multiples of 10 (from 10 to 30); teaches rote and rational counting by 10's; explains the meaning, sequence, and use of these numbers.

Counting by 10's to 50 (Filmstrip) Encyclopedia Britannica Films, 1948.

50 fr., b&w, 35 mm. (Using numbers)

Summary: Deals with multiples of 10 (from 50 to 100); teaches rote and rational counting by 10's; explains the meaning, sequence, and use of these numbers.

Counting by 10's to 80 (Filmstrip) Encyclopedia Britannica Films, 1948.

80 fr., b&w, 35 mm. (Using numbers)

Summary: Deals with multiples of 10 (from 80 to 100); teaches rote and rational counting by 10's; explains the meaning, sequence, and use of these numbers.

Counting by 10's to 100 (Filmstrip) Encyclopedia Britannica Films, 1948.

41 fr., b&w, 35 mm. (Using numbers)

Summary: Deals with multiples of 10 (from 100 to 100); teaches rote and rational counting by 10's; explains the meaning, sequence, and use of these numbers.

MATHEMATICS—Arithmetic

Counting from 10 to 15 (Filmstrip) Encyclopedia Britannica Films, 1948.

43 fr., b&w, 35 mm. (Using numbers)

Summary: Explains the meaning, sequence, and use of two-place numbers from 10 through 15; teaches rational counting from 10 through 15.

Counting from 15 to 20 (Filmstrip) Encyclopedia Britannica Films, 1948.

40 fr., b&w, 35 mm. (Using numbers)

Summary: Explains the meaning, sequence, and use of two-place numbers from 15 through 20; teaches rational counting from 15 through 20.

Counting from 20 to 40 (Filmstrip) Encyclopedia Britannica Films, 1948.

40 fr., b&w, 35 mm. (Using numbers)

Summary: Explains the meaning, sequence, and use of two-place numbers from 20 through 40; teaches rational counting from 20 through 40.

Counting from 40 to 100 (Filmstrip) Encyclopedia Britannica Films, 1948.

38 fr., b&w, 35 mm. (Using numbers)

Summary: Explains the meaning, sequence, and use of two-place numbers from 40 through 100; teaches rational counting from 40 through 100.

Counting to 5 (Filmstrip) Encyclopedia Britannica Films, 1948.

42 fr., b&w, 35 mm. (Using numbers)

Summary: Explains the meaning, sequence, and use of numbers from 1 to 5; teaches rational counting to 5.

Counting to 10 (Filmstrip) Encyclopedia Britannica Films, 1948.

48 fr., b&w, 35 mm. (Using numbers)

Summary: Explains the meaning and sequence of numbers from 5 to 10; teaches rational counting from 5 to 10.

Dividing decimals (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Decimals and percentage series)

Eastman color.
Revised version of the 1949 filmstrip.
With teacher's manual.
Summary: Shows location of the decimal point as the main problem in dividing decimals. Explains how to divide a decimal by an integer, divide an integer by a decimal, divide a decimal by a decimal by moving the point, and divide a decimal by a decimal where zero must be added to the dividend in order to place the point correctly. Emphasizes the importance of finding the location of the decimal point in the quotient before starting the process of division.

Division combinations (Filmstrip) Society for Visual Education, 1952.

4 filmstrips, b&w, 35 mm. (Basic numbers speed-4-strip series)

Group 1, 51 fr.; group 2, 49 fr. each; group 4, 51 fr.
With manual.
Summary: Exercises to develop skill in the recognition of numbers, teach basic number combinations, test achievement in number skills, improve eye-hand-brain coordination and visual memory, and increase eye span.

MATHEMATICS—Arithmetic

Experiences with comparisons (Filmstrip) Eye Gate House, 1953.

26 fr., color, 35 mm. (Arithmetical experiences for the third year)
 With teacher's manual.
 Summary: Shows the comparison of different heights, weights, lengths, and of large and small objects.

Experiences with counting (Filmstrip) Eye Gate House, 1953.

26 fr., color, 35 mm. (Arithmetical experiences for the third year)
 With teacher's manual.
 Summary: Develops the concept of counting by 2s, 3s, 5s, 10s, etc.

Experiences with fractions (Filmstrip) Eye Gate House, 1953.

26 fr., color, 35 mm. (Arithmetical experiences for the third year)
 With teacher's manual.
 Summary: Develops the concept of fractions through examples showing the process of dividing objects into equal parts.

Experiences with measurements (Filmstrip) Eye Gate House, 1953.

26 fr., color, 35 mm. (Arithmetical experiences for the third year)
 With teacher's manual.
 Summary: Develops the concept of measuring food. Shows how liquids are measured by pints, quarts, and liters; and how solids are weighed by the pound. Explains relationship between pounds and ounces. Points out that some objects are bought and measured by the dozen.

Experiences with numbers (Filmstrip) Eye Gate House, 1953.

26 fr., color, 35 mm. (Arithmetical experiences for the third year)
 With teacher's manual.
 Summary: Shows three place numbers and presents exercises in reading them; describes shapes, such as a square, a rectangle, and a triangle.

Experiences with the thermometer and with money (Filmstrip) Eye Gate House, 1953.

26 fr., color, 35 mm. (Arithmetical experiences for the third year)
 With teacher's manual.
 Summary: Shows how to read the degrees on a thermometer. Explains the use of money, the relationship among the various denominations, and the use of dimes and cents to introduce the addition of two place numbers without carrying.

Experiences with time (Filmstrip) Eye Gate House, 1953.

26 fr., color, 35 mm. (Arithmetical experiences for the third year)
 With teacher's manual.
 Summary: Introduces the idea of time. Shows the use of the hour hand and the minute hand on the clock, and develops the fact that the hour hand goes from one number to another in 5 minutes, while the minute hand takes 60 minutes. Also presents the system of Roman numerals.

Five keys to math (Filmstrip) Jam Handy Organization, 1944.

48 fr., b&w, 35 mm. (Light on mathematics, kit 1: Arithmetic, no. 1)
 Summary: Points out the importance of mathematics in everyday life, and describes methods of learning that may help in applying mathematics.

Fraction series (Filmstrip) Society for Visual Education, 1951.

8 filmstrips, b&w, 35 mm.
 Summary: Explains various concepts that must be observed in the adding, subtracting, multiplying, and dividing of fractions and mixed numbers. Shows the practical use of fractions in everyday life. For intermediate grades.
 Contents: 1. The meaning of fractions. 43 fr.—2. Changing the terms of fractions. 41 fr.—3. Adding like fractions and mixed numbers. 30 fr.—4. Subtracting like fractions and mixed numbers. 30 fr.—5. Adding unlike fractions and mixed numbers. 43 fr.—6. Multiplying fractions and mixed numbers. 63 fr.—7. Dividing fractions and mixed numbers. 41 fr.

Fractional parts of a whole: $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ (Filmstrip) Jam Handy Organization, 1950.

26 fr., color, 35 mm. (Introduction to fractions, no. 1)
 With teacher's guide-index.
 Summary: Develops the beginning concepts of one-half, one-third, and one-fourth, from objects to abstract figures and symbols. For elementary grades.

Fractional parts of a whole and groups: $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ (Filmstrip) Jam Handy Organization, 1950.

26 fr., color, 35 mm. (Introduction to fractions, no. 3)
 With teacher's guide-index.
 Summary: Develops the beginning concepts of fifth, sixth, and eighth of whole things and groups, from objects to abstract figures and symbols. For elementary grades.

Fractional parts of groups: $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ (Filmstrip) Jam Handy Organization, 1950.

26 fr., color, 35 mm. (Introduction to fractions, no. 2)
 With teacher's guide-index.
 Summary: Develops fractional parts of groups by showing objects on circles divided into halves, thirds, and fourths, and progressing to abstract figures and symbols. For elementary grades.

Fractions, decimals, and percentage (Filmstrip) Jam Handy Organization, 1944.

56 fr., b&w, 35 mm. (Light on mathematics, kit 1: Arithmetic, no. 4)
 Summary: Shows how to go from whole numbers to fractions, to decimals, to percentage, and back; when to use a decimal instead of a fraction; when fractions are practical. Stresses the importance of selecting the right form, and discusses percentage problems.

Fractions of a group (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Fractions series)
 Eastman color.
 Revised version of the 1949 filmstrip.
 Summary: Shows that any group may have fractional parts, and introduces fractions of a group where the equal parts are more than one.

The game of how many (Filmstrip) Eye Gate House, 1953.

26 fr., color, 35 mm. (Arithmetical experiences for the third year)
 With teacher's manual.
 Summary: Shows how children can play the game of "how many" anytime and anywhere by being aware of the numbers of things around them.

How large is a fraction? (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Fractions series)
 Eastman color.
 Revised version of the 1949 filmstrip.
 Summary: Building on the knowledge that the denominator shows how many equal parts the whole can be divided into, develops the concept of relative size of the fractions $\frac{1}{2}$, $\frac{1}{4}$, etc. Illustrates, with various examples, the equivalence of fractions.

Introduction to decimals (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Decimals and percentage series)
 Eastman color.
 Revision of the 1949 filmstrip.
 Summary: Shows use of the student's familiarity with dollars and cents to build a concept of the nature of decimals, and to show why and when they are used in preference to common fractions. Presents the decimal system as an extension of fractional concepts.

Introduction to percentage (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Decimals and percentage series)
 Eastman color.
 Revision of the 1949 filmstrip.
 Summary: Shows use of the student's familiarity with dollars and cents to develop an understanding of the concept of percent, and shows why it is convenient to compare things on a base of 100.

Learning about and using pennies, nickels, and dimes (Filmstrip) Society for Visual Education, 1953.

35 fr., color, 35 mm. (Using and understanding numbers: Kindergarten and grade one)
 Summary: Illustrations of familiar objects are used to develop basic concepts of numbers and to show their use in daily experience.

Learning to tell time (Filmstrip) Society for Visual Education, 1953.

35 fr., color, 35 mm. (Using and understanding numbers: Kindergarten and grade one)
 Summary: Illustrations of familiar objects are used to develop basic concepts of numbers and to show their use in daily experience.

Mathematics and the pilot (Filmstrip) Jam Handy Organization, 1944.

47 fr., b&w, 35 mm. (Light on mathematics, kit 1: Arithmetic, no. 1A)
 Summary: Points out the importance of mathematics to a pilot, the significance of the mathematical ability of the pilot to other members of the crew, and ways in which mathematics can help in landing the plane.

MATHEMATICS—Arithmetic

Mixed numbers (Filmstrip) Curriculum Films, 1951.

26 fr., color, 35 mm. (Fractions series)
 Eastman color.
 Revised version of the 1949 filmstrip.
 Summary: Shows how children can play the game of "how many" anytime and anywhere by being aware of the numbers of things around them.

More experiences with measurements (Filmstrip) Eye Gate House, 1953.

26 fr., color, 35 mm. (Arithmetical experiences for the third year)
 With teacher's manual.
 Summary: Demonstrates that the unit of measure is related to the size of the object or the distance that is to be measured, as paper in inches, a basketball court in feet, a room in yards, and distance in miles. Also explains the use of a calendar, showing the names of the days, months, and important holidays.

Multiplication and division (Filmstrip) Jam Handy Organization, 1944.

26 fr., b&w, 35 mm. (Light on mathematics, kit 1: Arithmetic, no. 3)
 Summary: Explains a short method of addition and subtraction, when to multiply, and when to divide; covers working form, contrasting the decimal point, anticipation of results, short cuts, and checks for accuracy.

Multiplication and division of fractions (Filmstrip) Jam Handy Organization, 1944.

26 fr., b&w, 35 mm. (Light on mathematics, kit 1: Arithmetic, no. 6)
 Summary: Describes the indications for multiplication and division, explains what happens when fractions are multiplied or divided, reduction, large fractions, short cuts, and checks for accuracy.

Multiplication combinations (Filmstrip) Society for Visual Education, 1953.

4 filmstrips (35 fr. each), b&w, 35 mm. (Basic numbers speed-series)
 With manual.
 Summary: Multiplication groups 1 to 4 exercises to develop skill in the mental nature of numbers; teach basic number combinations; test achievement in number skills; improve eye-hand coordination and visual memory, and increase eye span. May be used with or without tachistoscope.

Multiplying decimals (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Decimals and percentage series)
 Eastman color.
 Revised version of the 1949 filmstrip.
 Summary: Drawing on the student's familiarity with common fractions, explains the principles of adding the number of decimal places in the two numbers to be multiplied, to find the number of decimal places in the product. Provides practice in reducing a product to the significant numbers appropriate to it; shows the student's knowledge that fractions of a cent are usually referred to the nearest cent, to show the importance of this principle.

Multiplying fractions by fractions (Filmstrip) Curriculum Films, 1951.

26 fr., color, 35 mm. (Fractions series)
 Eastman color.
 Revised version of the 1949 filmstrip.
 Summary: Shows how to multiply a whole number by a fraction, and a fraction by a whole number. Gives examples of multiplying $\frac{1}{2}$ by $\frac{1}{2}$, $\frac{1}{2}$ by $\frac{1}{4}$, and $\frac{1}{4}$ by $\frac{1}{2}$, with practice exercises.

MATHEMATICS—Arithmetic

Non-unit fractions of a whole and groups (Filmstrip) Jam Handy Organization, 1950.

27 fr., color, 35 mm. (Introduction to fractions, no. 4)
 With teacher's guide.
 Summary: By means of a familiar social situation, develops the meaning of non-unit fractions of a whole and groups. For elementary grades.

A number family in addition (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1947.

42 fr., color, 35 mm. (Primary arithmetic, no. 3)
 With teacher's guide.
 Summary: Explains the meaning of addition through the use of familiar objects at a birthday party—balloons, hats, chairs, and pieces of cake. Includes simple problems for class participation.

Number recognition: Digits (Filmstrip) Society for Visual Education, 1952.

4 filmstrips (45 fr. each; pt. 6, 55 fr.), b&w, 35 mm. (Basic number recognition series)
 With manual.
 Summary: Exercises to develop skill in the recognition of numbers, teach basic number combinations, and advance to number skills. Improve eye-hand-brain coordination and visual memory, and increase confidence. A. Fifteen easiest combinations. 33 fr.—2. Thirty easy combinations. 33 fr.—3. Fifteen more combinations. 43 fr.—4. Thirty-six more combinations. 77 fr.

Order of operations (Filmstrip) Jam Handy Organization, 1944.

46 fr., b&w, 35 mm. (Light on mathematics, kit 1: Arithmetic, no. 8)
 Summary: Describes practical uses of arithmetic processes, operations involving choices of basic methods, and the development of mental resources.

Problems in percentage (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Decimals and percentage series)
 Eastman color.
 Revision of the 1949 filmstrip.
 With teacher's manual.
 Summary: Presents situations in which percentages are used by the average child—in spending class funds, in raising money for charity, and in saving money—to demonstrate how percentages are helpful and how interest on savings accounts is computed by banks.

Reading numbers to 50 (Filmstrip) Encyclopedia Britannica Films, 1948.

32 fr., b&w, 35 mm. (Using numbers)
 Summary: Teaches the recognition and writing of two-place numbers up to 50; explains the meaning, sequence, and use of these numbers.

Reading numbers to 100 (Filmstrip) Encyclopedia Britannica Films, 1948.

35 fr., b&w, 35 mm. (Using numbers)
 Summary: Teaches the recognition and reading of two-place numbers up to 100; explains the meaning, sequence, and use of these numbers.

Review: Work and play with number 11 (Filmstrip) Eye Gate House, 1952.

26 fr., color, 35 mm. (Bridging the decades)
 With teacher's manual.
 Summary: Through concrete illustrations and abstract examples from the child's experience, reviews the concepts concerning numbers 1 to 10 and develops the concept of the number 11. For grades 1-4.

Square root and cube root (Filmstrip) Jam Handy Organization, 1944.

22 fr., b&w, 35 mm. (Light on mathematics, kit 1: Arithmetic, no. 7)
 Summary: Discusses the applying of reason to the method of rooting, and understanding its meaning.

Subtraction combinations (Filmstrip) Society for Visual Education, 1952.

4 filmstrips, b&w, 35 mm. (Basic numbers speed-to-strip series)
 With manual.
 Summary: Exercises to develop skill in the recognition of numbers, teach basic number combinations, test achievement in number skills, improve eye-hand-brain coordination and visual memory, and increase confidence. A. Fifteen easiest combinations. 33 fr.—2. Thirty easy combinations. 33 fr.—3. Fifteen more combinations. 43 fr.—4. Thirty-six more combinations. 77 fr.

The three (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1947.

44 fr., color, 35 mm. (Primary arithmetic, no. 9)
 With teacher's guide.
 Summary: With emphasis on units of three, explains what multiplication is and how it differs from addition.

Time and money (Filmstrip) Eye Gate House, 1950.

30 fr., color, 35 mm. (Work and play with numbers)
 With teacher's manual.
 Summary: Reviews basic number facts and shows how to count money. For primary and elementary grades.

20th century bookkeeping and accounting series (Filmstrip) Society for Visual Education and South-western Pub. Co., Released by Society for Visual Education, 1949.

8 filmstrips, color, 35 mm.
 Correlates with 20th century bookkeeping and accounting, by Paul A. Carlson, Hamden L. Forkner, and Alva L. Lyle.
 Summary: Explains the steps in posting journal entries, and work at the close of the fiscal year.
 Contents: 1. The bookkeeping cycle, part 1: Recording and posting the opening entry. 42 fr.—2. The bookkeeping cycle, part 2: Journal entries and trial balance. 46 fr.—3. The bookkeeping cycle, part 3: Work at the close of fiscal year. 51 fr.

The two in division (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1947.

46 fr., color, 35 mm. (Primary arithmetic, no. 9)
 With teacher's guide.
 Summary: Using two as the divisor, illustrates problems in division and explains how division differs from subtraction.

Using and understanding addition—objects and symbols (Filmstrip) Society for Visual Education, 1954.

43 fr., color, 35 mm. (Using and understanding numbers: Grade one)
 Summary: Illustrations are used to promote development of basic principles in relation to simple addition.

Using and understanding division—objects and symbols (Filmstrip) Society for Visual Education, 1955.

50 fr., color, 35 mm. (Using and understanding numbers: Grade two)
 Summary: Uses captioned illustrations of common everyday objects to develop fundamental number concepts and show their use in daily experiences. Presents the concept of dividing by 2 and by 3 in simple arithmetic problem-solving situations.

Using and understanding multiplication—objects and symbols (Filmstrip) Society for Visual Education, 1955.

33 fr., color, 35 mm. (Using and understanding numbers: Grade two)
 Summary: Uses captioned illustrations of common everyday objects to develop fundamental number concepts, and skills in multiplication by 2 and by 3.

Using and understanding numbers by 1's, 2's, 5's, 10's (Filmstrip) Society for Visual Education, 1954.

38 fr., color, 35 mm. (Using and understanding numbers: Grade one)
 Summary: Illustrations are used to develop the child's ability to associate number symbols and oral number words to counting by 1's, 2's, 5's, and 10's to 100.

Using and understanding numbers by 2's, 3's, 4's, and 5's (Filmstrip) Society for Visual Education, 1955.

36 fr., color, 35 mm. (Using and understanding numbers: Grade two)
 Summary: Uses captioned illustrations of common everyday objects to develop fundamental number concepts, associating number symbols and oral number words by 2's, 3's, 4's, and 5's.

Using and understanding numbers 1-5 (Filmstrip) Society for Visual Education, 1955.

35 fr., color, 35 mm. (Using and understanding numbers: Kindergarten and grade one)
 Summary: Illustrations of familiar objects are used to develop basic concepts of numbers and to show their use in daily experiences.

Using and understanding numbers 5-9 (Filmstrip) Society for Visual Education, 1955.

35 fr., color, 35 mm. (Using and understanding numbers: Kindergarten and grade one)
 Summary: Illustrations of familiar objects are used to develop basic concepts of numbers and to show their use in daily experiences.

Using and understanding numbers 9-12 (Filmstrip) Society for Visual Education, 1955.

35 fr., color, 35 mm. (Using and understanding numbers: Kindergarten and grade one)
 Summary: Illustrations of familiar objects are used to develop basic concepts of numbers and to show their use in daily experiences.

Using and understanding numbers 11-15 (Filmstrip) Society for Visual Education, 1954.

43 fr., color, 35 mm. (Using and understanding numbers: Grade one)
 Summary: Illustrations are used to develop ability to recognize numbers in small groups with and without counting, and to associate number symbols and oral number words with small groups of concrete objects. "Ten numbers" are formed by associating a group of ten objects and a few others, such as 9 and 8 into 18 and 7.

Using and understanding numbers 16-20 (Filmstrip) Society for Visual Education, 1954.

44 fr., color, 35 mm. (Using and understanding numbers: Grade one)
 Summary: Illustrations are used to develop ability to recognize numbers in small groups with and without counting, and to associate number symbols and oral number words with small groups of concrete objects. "Ten numbers" are formed by associating a group of ten objects and a few others, such as 9 and 8 into 18 and 7.

Using and understanding simple measures (Filmstrip) Society for Visual Education, 1953.

47 fr., color, 35 mm. (Using and understanding numbers: Grade one)
 Summary: Illustrations are used to develop and understand the use of simple measures such as feet, inches, 7/8, 3/4, 1/2, 1/4, 1/8, 1/16, pounds, half-pounds, ounces, half-ounces, and the relationship of thermometer readings to the weather.

Using and understanding subtraction—objects and symbols (Filmstrip) Society for Visual Education, 1954.

44 fr., color, 35 mm. (Using and understanding numbers: Grade one)
 Summary: Illustrations are used to promote development of basic principles in relation to simple subtraction.

Using and understanding the calendar (Filmstrip) Society for Visual Education, 1953.

49 fr., color, 35 mm. (Using and understanding numbers: Grade two)
 Summary: Through captioned illustrations of the calendar, shows how to use the calendar and recognize 28, 29, 30, and 31-day months.

Using mixed numbers (Filmstrip) Curriculum Films, 1951.

26 fr., color, 35 mm. (Fractions series)
 Eastman color.
 Revision of the 1949 filmstrip.
 With teacher's manual.
 Summary: Reviews the equivalence of a mixed number and an improper fraction, and provides examples for practice in changing improper fractions to mixed numbers.

Using percentage (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Decimals and percentage series)
 Eastman color.
 Revision of the 1949 filmstrip.
 With teacher's manual.
 Summary: Presents problems concerned with spending only weekly allowance, saving, and earning money, to provide practice in changing a percent to a decimal and to a fraction, finding a percent of a number, finding what percent one number is of another, and finding a percent of change.

MATHEMATICS—Arithmetic

We learn numbers, part 1 (Filmstrip) Eye Gate House, 1950.

25 fr., color, 35 mm. (Work and play with numbers)

With teacher's manual.
Summary: Through pictures and questions explains each of the numbers 1 through 5. Shows how to recognize and write the symbols for each number. Includes a test of understanding. For primary and elementary grades.

We learn numbers, part 2 (Filmstrip) Eye Gate House, 1950.

25 fr., color, 35 mm. (Work and play with numbers)

With teacher's manual.
Summary: Develops the primary number facts from 6 through 10, with emphasis on counting. For primary and elementary grades.

What is a fraction? (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Fractions series)

With teacher's manual.
Summary: Explains the basic concept of a fraction as an equal part of a whole. Uses one-fourth as an example, and relates it to familiar concepts such as one quarter of an hour.

What numbers mean (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1947.

45 fr., color, 35 mm. (Primary arithmetic, no. 2)

With teacher's guide.
Summary: Illustrates meanings of the numbers one to ten through the use of objects familiar to the child. Includes exercises.

Work and play with numbers 3 & 6 (Filmstrip) Eye Gate House, 1950.

25 fr., color, 35 mm. (Work and play with numbers)

With teacher's manual.
Summary: Explains the addition and subtraction combinations for numbers 3 and 6, through concrete illustrations as well as abstract examples. For primary and elementary grades.

Work and play with numbers 7 & 8 (Filmstrip) Eye Gate House, 1950.

25 fr., color, 35 mm. (Work and play with numbers)

With teacher's manual.
Summary: Analyzes the numbers 7 and 8 for addition and subtraction facts. For primary and elementary grades.

Work and play with numbers 8 & 9 (Filmstrip) Eye Gate House, 1950.

25 fr., color, 35 mm. (Work and play with numbers)

With teacher's manual.
Summary: Presents the addition and subtraction facts for numbers 8 and 9 through concrete pictorial illustrations and abstract examples. For primary and elementary grades.

Work and play with numbers 9 and 10 (Filmstrip) Eye Gate House, 1950.

25 fr., color, 35 mm. (Work and play with numbers)

Summary: Number facts involving 9, combinations related to 10.

Work and play with numbers 12 and 13 (Filmstrip) Eye Gate House, 1952.

25 fr., color, 35 mm. (Bridging the decades)

With teacher's manual.
Summary: Through concrete illustrations and abstract examples from the child's experiences, develops the concepts of the numbers 12 and 13. For grades 1-4.

Work and play with numbers 14 and 15 (Filmstrip) Eye Gate House, 1952.

25 fr., color, 35 mm. (Bridging the decades)

With teacher's manual.
Summary: Through concrete illustrations and abstract examples from the child's experiences, develops the concepts of the numbers 14 and 15. For grades 1-4.

Work and play with numbers 16 and 17 (Filmstrip) Eye Gate House, 1952.

25 fr., color, 35 mm. (Bridging the decades)

With teacher's manual.
Summary: Through concrete illustrations and abstract examples from the child's experiences, develops the concepts of the numbers 16 and 17. For grades 1-4.

Work and play with number 18 (Filmstrip) Eye Gate House, 1952.

25 fr., color, 35 mm. (Bridging the decades)

With teacher's manual.
Summary: Through concrete illustrations and abstract examples from the child's experiences, develops the concept of the number 18. For grades 1-4.

Work and play with number 19 (Filmstrip) Eye Gate House, 1952.

25 fr., color, 35 mm. (Bridging the decades)

With teacher's manual.
Summary: Through concrete illustrations and abstract examples from the child's experiences, develops the concept of the number 19. For grades 1-4.

Work and play with number 20 (Filmstrip) Eye Gate House, 1952.

25 fr., color, 35 mm. (Bridging the decades)

With teacher's manual.
Summary: Through concrete illustrations and abstract examples from the child's experiences, develops the concept of the number 20. For grades 1-4.

Work and play with more problems (Filmstrip) Eye Gate House, 1952.

25 fr., color, 35 mm. (Bridging the decades)

With teacher's manual.
Summary: Develops the concept of arithmetic problems through problems from the child's own experience. For grades 1-4.

Work and play with problems (Filmstrip) Eye Gate House, 1952.

25 fr., color, 35 mm. (Bridging the decades)

With teacher's manual.
Summary: Presents arithmetic problems involved in buying a toy, and in having enough money to ride a bus. For grades 1-4.

Working with numbers to 100 (Filmstrip) Encyclopedia Britannica Films, 1948.

35 fr., b&w, 35 mm. (Using numbers)

Summary: Teaches the writing of two-place numbers up to 100; explains the meaning, sequence, and use of these numbers.

Writing fractions (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Fractions series)

With teacher's manual.
Summary: Explains the significance of writing fractions, with emphasis on the number before the line, showing the number of equal parts into which the whole has been divided.

Writing numbers to 10 (Filmstrip) Encyclopedia Britannica Films, 1948.

40 fr., b&w, 35 mm. (Using numbers)

Summary: Explains the meaning and sequence of numbers to 10; teaches the writing of numbers from 1 to 10.

Writing numbers to 100 (Filmstrip) Encyclopedia Britannica Films, 1948.

34 fr., b&w, 35 mm. (Using numbers)

Summary: Teaches recognition and simple manipulation of two-place numbers up to 100; reviews the meaning and sequence of two-place numbers.

Zero, a place holder (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1947.

44 fr., color, 35 mm. (Primary arithmetic, no. 2)

With teacher's guide.
Summary: Illustrates the development of the two-place number from the one-place number by the addition of zero. Explains the relationship of tens to ones through the use of pennies, cards, and beads.

MATHEMATICS—Calculus

Integral calculus series (Filmstrip) Society for Visual Education, 1947-48.

4 filmstrips, b&w, 35 mm.
Summary: First three filmstrips show how a rectangular coordinate system is used to develop principles for finding areas bounded by curved lines and volumes of solids bounded by curved surfaces. The fourth strip presents the use of the polar coordinate system. Content: 1. Areas by integration. 40 fr.—1. Double integrals. 45 fr.—2. Triple integrals. 40 fr.—3. Areas by integration using polar equations. 34 fr.

MATHEMATICS—Geometry

Addition and subtraction in geometry (Filmstrip) Jam Handy Organization, 1944.

56 fr., b&w, 35 mm. (Light on mathematics, kit 2: Geometry, no. 1)

Summary: Relates geometry to basic arithmetic; discusses inductively vs. deductive; explains fundamentals from which theorems are developed.

Angular measurement (Filmstrip) Jam Handy Organization, 1944.

76 fr., b&w, 35 mm. (Light on mathematics, kit 2: Geometry, no. 3)

Summary: Explains the relation of angles to arcs; covers degrees, radians, mils, and functions.

Areas (Filmstrip) Society for Visual Education, 1948.

47 fr., b&w, 35 mm. (Plane geometry series, 8)

Summary: Explains the meaning of area, and shows how to find the area of squares, rectangles, parallelograms, and triangles.

Basic angles and experimental geometry (Filmstrip) Society for Visual Education, 1947.

32 fr., b&w, 35 mm. (Plane geometry series, 2)

Summary: Explains basic terminology of the angle; initial side, terminal side, vertex, and degree. Gives examples of right angle, acute angle, straight angle, obtuse angle, and reflex angle.

Basic triangles (Filmstrip) Society for Visual Education, 1948.

45 fr., b&w, 35 mm. (Plane geometry series, 3)

Summary: Demonstrates the strength and rigidity of the triangle, then classifies triangles by the size of their angles, and points out characteristic features of right triangles, obtuse triangles, and equilateral triangles.

Common tangents and tangent circles (Filmstrip) Society for Visual Education, 1948.

46 fr., b&w, 35 mm. (Plane geometry series, 11)

Summary: Shows characteristics of common tangents and tangent circles as well as five possible ways for two circles to have common tangents.

Congruent and overlapping triangles (Filmstrip) Society for Visual Education, 1948.

46 fr., b&w, 35 mm. (Plane geometry series, 12)

Summary: Explains the nature and use of congruent and overlapping triangles.

Construction (Filmstrip) Jam Handy Organization, 1944.

62 fr., b&w, 35 mm. (Light on mathematics, kit 2: Geometry, no. 4)

Summary: Explains geometrical constructions and their relation to problem solution; points out the reproductive and creative uses of construction principles.

MATHEMATICS—Geometry

Introduction to circles (*Filmstrip*) Society for Visual Education, 1948.

48 fr., b&w, 35 mm. (Plane geometry series, 10)

Summary: Gives the elements of a circle and shows circular objects from everyday life.

Introduction to demonstrative geometry: Axioms, theorems, postulates (*Filmstrip*) Society for Visual Education, 1948.

44 fr., b&w, 35 mm. (Plane geometry series, 4)

Summary: Explains the axioms and postulates on which demonstrative geometry is based. Gives the relationship between the two parts of a theorem, the hypothesis and conclusion, as well as the proof of a simple theorem.

Introduction to plane geometry (*Filmstrip*) Society for Visual Education, 1945.

42 fr., b&w, 35 mm. (Plane geometry series, 1)

Summary: Cites occupations requiring a knowledge of geometry, then explains such terms as point, straight line, curved line, broken line, vector, terminal and initial sides, and angle.

Loc (*Filmstrip*) Society for Visual Education, 1948.

47 fr., b&w, 35 mm. (Plane geometry series, 7)

Summary: Explains the concept of loc in terms of their normal occurrence, and gives characteristics of the circle, ellipse, parabola, and perpendicular bisector.

Multiplication and division in geometry (*Filmstrip*) Jam Handy Organization, 1944.

54 fr., b&w, 35 mm. (Light on mathematics, kit 2; Geometry, no. 3)

Summary: Explains the application of arithmetic to geometry; covers area and volume, ratios and similarity, and the circle.

Parallel lines and transversals (*Filmstrip*) Society for Visual Education, 1945.

44 fr., b&w, 35 mm. (Plane geometry series, 6)

Summary: Explains the meaning of parallel lines and their use in everyday life. Gives examples of angles formed by transversal intersecting parallel lines. Shows how urban life point up the importance of time concepts in present-day city planning.

Plane geometry (*Filmstrip*) Curriculum Films, Incorporated, 1951.

670 fr., color, 35 mm.

Summary: Sixteen strips; plane geometry explained and applied, as follows: Introduction to Plane Geometry; Vocabulary: Lines and Angles I; Vocabulary: Lines and Angles II—Relationships; Vocabulary: Lines, Relationships—Direction, Perpendicular Lines; Vocabulary: Triangles; Vocabulary: Polygons; Vocabulary: Circles I; Vocabulary: Circles II; Foundations of Geometry—Postulates: Lines; Foundations of Geometry—Postulates: Triangles and Circles; Loc; Geometry in Art; Applying Geometric Logic—Definitions and Key Words; Applying Geometric Logic—Deductive Reasoning; Applying Geometric Logic—Induction, Analysis, and Indirect Reasoning; Applying Geometric Logic—Mistakes in Thinking.

Quadrilaterals (*Filmstrip*) Society for Visual Education, 1948.

54 fr., b&w, 35 mm. (Plane geometry series, 5)

Summary: Defines the parallelogram, rhombus, square, rectangle, trapezoid, and isosceles trapezoid with diagrams to show their similarities and differences.

Scales and models (*Filmstrip*) Jam Handy Organization, 1944.

85 fr., b&w, 35 mm. (Light on mathematics, kit 2; Geometry, no. 3)

Summary: The story behind scales and models. Shows how to plan, use, and understand scales and models.

Similar polygons (*Filmstrip*) Society for Visual Education, 1945.

45 fr., b&w, 35 mm. (Plane geometry series, 9)

Summary: Through a series of diagrams demonstrates the characteristics of various similar polygons, and shows that similar polygons are useful in drawing maps, floor plans, and in such vocations as surveying. For high school.

Trigonometry (*Filmstrip*) Jam Handy Organization, 1944.

45 fr., b&w, 35 mm. (Light on mathematics, kit 2; Geometry, no. 7)

Summary: Shows how trigonometry extends the scope of geometry. Covers the development of basic relationships in trigonometry, and the triangle in general.

Vectors (*Filmstrip*) Jam Handy Organization, 1944.

55 fr., b&w, 35 mm. (Light on mathematics, kit 2; Geometry, no. 9)

Summary: Explains a simple means for the visualization of the three force properties: analyzes concurrent and resultant forces; shows how navigation is simplified by vectors.

MATHEMATICS—Graphs

Analytic geometry (*Filmstrip*) Jam Handy Organization, 1944.

44 fr., b&w, 35 mm. (Light on mathematics, kit 4; Graphs, no. 3)

Summary: Describes quadratic equations; writing the equation for any graphing; and drawing board methods in graphing.

Graph uses (*Filmstrip*) Jam Handy Organization, 1944.

55 fr., b&w, 35 mm. (Light on mathematics, kit 4; Graphs, no. 1)

Summary: Shows how to develop and use graphs in everyday activities. Presents graphs in their relationship to formulas and equations, and as a device for giving the facts at a glance.

Plotting graphs (*Filmstrip*) Jam Handy Organization, 1944.

69 fr., b&w, 35 mm. (Light on mathematics, kit 4; Graphs, no. 2)

Summary: Shows how to visualize the equation, describes constants and how they change the picture, and simultaneous equations and their solution.

MATHEMATICS—Measurement

History of area measures (*Filmstrip*) Young America Films, 1949.

81 fr., b&w, 35 mm. (History of measures series)

With teacher's guide.

Summary: Traces the area and other early units of surface measurement; relates the evolution of modern units to man's ability to multiply numbers. For elementary and junior high school grades.

History of linear measures (*Filmstrip*) Young America Films, 1949.

36 fr., b&w, 35 mm. (History of measures series)

With teacher's guide.

Summary: Describes early units of linear measure and shows the evolution of such units as foot, yard, rod, etc. For elementary and junior high school grades.

History of our calendar (*Filmstrip*) Young America Films, 1949.

35 fr., b&w, 35 mm. (History of measures series)

With teacher's guide.

Summary: Describes early efforts to devise an accurate calendar; and the origin of names for months and days.

History of our number system (*Filmstrip*) Young America Films, 1949.

35 fr., b&w, 35 mm. (History of measures series)

With teacher's guide.

Summary: The history of our number symbols and counting, including early number systems and the development of the Hindu-Arabic number system. For elementary and junior high school.

History of telling time (*Filmstrip*) Young America Films, 1949.

38 fr., b&w, 35 mm. (History of measures series)

With teacher's guide.

Summary: Traces man's efforts through the ages to build time-keeping devices, and describes the evolution of the modern clock. For elementary and junior high school.

History of weight and volume measures (*Filmstrip*) Young America Films, 1949.

36 fr., b&w, 35 mm. (History of measures series)

With teacher's guide.

Summary: The story of early measures of weight and volume, and the origin of the units of measure used today. For elementary and junior high school grades.

How to tell time. Part 1: The hour and the half-hour (*Filmstrip*) Popular Science Pub. Co. Audio-Visual Division, 1945.

45 fr., b&w, 35 mm.

With teacher's guide.

Summary: Explains in story form the function of the hour and the minute hands of the clock; associates the common daily activities of the child's day with specific times; provides classroom exercises for pupil participation in learning to read a clock. For primary grades.

MEDICINE—Bacteriology

How to tell time. Part 2: The minutes (*Filmstrip*) Popular Science Pub. Co. Audio-Visual Division, 1948.

45 fr., b&w, 35 mm.

With teacher's guide.

Summary: Describes in story form the minute hand of the clock and its relation to the hour hand; explains how to tell time to minutes; provides classroom exercises for pupil participation in learning to read a clock. For primary grades.

MEDICINE—Anatomy

Anatomy and physiology (*Filmstrip*) U. S. War Dept., 1944.

10 fr., color, 35 mm.

Order no. FS-5-70.

Summary: Presents two charts of the skeletal and muscular systems, internal organs, digestive tract, genital and urinary systems, and circulatory and nervous systems.

The liver. Part 1: Normal histology of the human liver (*Filmstrip*) U. S. Public Health Service, 1949.

121 fr., color, 35 mm., and disc: 2.4, 10 in., 33 rpm, 15 min. (The organs in health and disease series)

Order no. 5-1045.

Composite presentation of material presented in three filmstrips with the subtitles: 1. The hepatic parenchyma and the biliary passages. 2. Vascularization of the liver. 3. Intervascular spaces of vessels. Summary: Explains the structure, architecture, and vascularization of the liver as a basis for understanding the nature of disease of the liver. Consists primarily of drawings. For medical students and personnel.

The lung. Part 1: Comparative anatomy and normal histology (*Filmstrip*) U. S. Public Health Service, 1948.

100 fr., color, 35 mm., and disc: 1.4, 10 in., 33 rpm, 15 min. (The organs in health and disease series)

Order no. 5-1045.

Summary: Compares the respiratory systems of vertebrates and invertebrates and the relative efficiency of the avian and mammalian lungs; and explains the anatomy and histology of the human lung.

MEDICINE—Atomic Medicine

Atomic energy for better health, pt. B: Using isotopes to improve health (*Filmstrip*) Charles Scribner's Sons, 1951.

35 fr., color, 35 mm.

Eastman color.

With teacher's guide.

Correlated with Book 8 of The wonderworld of science by Warren Hurt and others. Summary: Demonstrates the use of different radioactive isotopes in diagnosing and treating disease and in preventing bacterial decay of foods; shows how radioactive cobalt is replacing X-rays and radium in the treatment of cancer.

MEDICINE—Bacteriology

Bacteria—good and bad (*Filmstrip*) Young America Films, 1952.

40 fr., color, 35 mm. (Good health series)

Nervel.

With teacher's guide.

Summary: Explains the different kinds of bacteria, the harmful and the helpful. Describes precautions that should be taken to control the spread of harmful bacteria. For middle grades.

Eastman color.

MEDICINE—Bacterial

- Hideo Noguchi (Filmstrip)** Eye Gate House, 1931.
25 fr., color, 35 mm. (Men who helped us find out)
With teacher's manual.
Summary: Presents the life of Hideo Noguchi, and points out his achievement in bacteriology.
- Louis Pasteur (Filmstrip)** Eye Gate House, 1931.
25 fr., color, 35 mm. (Men who helped us find out)
With teacher's manual.
Summary: Presents the life of the chemist Louis Pasteur, and depicts his discovery of vaccines.
- Robert Koch and the discovery of the tubercle bacillus (Filmstrip)** Metropolitan Life Insurance Co., 1941. Made by F. J. Burton Associates.
33 fr., b&w, 35 mm. (Health heroes series)
Revised version of the 1933 filmstrip.
With booklet.
Based on the biography Robert Koch, by Grace T. Hallock and G. E. Turner.

MEDICINE—Communicable Diseases

- Christian Eijkman (Filmstrip)** Eye Gate House, 1931.
25 fr., color, 35 mm. (Men who helped us find out)
With teacher's manual.
Summary: Presents the life of Christian Eijkman, and describes his achievement in the field of diseases.
- Diagnosis of primary syphilis (Filmstrip)** U. S. Public Health Service, 1945.
71 fr., color, 35 mm. and disc: 1 s., 12 in., 331 rpm, 9 min.
Order no. 5-587.
Summary: Discusses some common errors in the diagnosis of syphilis, the location of lesions, differences between syphilitic lesions and lesions caused by other diseases, and the importance of dark-field examination.
- Horizons of syphilis (Filmstrip)** U. S. Public Health Service, 1945.
50 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 9 min.
Order no. 5-588.
Summary: Explains through drawings and statistical charts the most common ways in which syphilis, if untreated, affects man.
- The long adventure (Filmstrip)** National Tuberculosis Association, 1932.
30 fr., color, 35 mm.
With booklet, entitled The long adventure, and a chart.
Summary: Reviews highlights in the history of TB control from 2000 B.C. to the present day (1932).

MEDICINE—First Aid

- Artificial respiration (Filmstrip)** Jam Handy Organization, 1942.
33 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 8 min. (First aid training, no. 12)
With manual.
Summary: How to apply artificial respiration by the prone pressure method.
- Bandaging. Part 1: Triangular bandage (Filmstrip)** U. S. War Dept., 1945.
30 fr., b&w, 35 mm.
Order no. FS 8-301.
Summary: Illustrates various methods of using the triangular bandage.
- Bandaging. Part 2: Roller bandage (Filmstrip)** U. S. War Dept., 1945.
70 fr., b&w, 35 mm.
Order no. FS 8-302.
Summary: Illustrates various methods of using a roller bandage, including a recurrent bandage of the head, crossed bandage of one eye, crossed bandage of both eyes, etc.
- Basic shop safety series (Filmstrip)** The Jam Handy Organization, 1945.
2 filmstrips, b&w, 35 mm.
Contents: 1. Aid for injuries—Fainting—Burns. 84 fr.—2. Treatment for bleeding—Shock—Preventing infection. 101 fr.
- The body, part 1 (Filmstrip)** Jam Handy Organization, 1942.
43 fr., color, 35 mm. and disc: 1 s., 12 in., 331 rpm, 10 min. (First aid training, no. 3)
With manual.
Summary: Shows the parts of the body: muscles, tendons, skin, blood, skeleton, head, trunk, upper and lower limbs.
- The body, part 2 (Filmstrip)** Jam Handy Organization, 1942.
46 fr., color, 35 mm. and disc: 1 s., 12 in., 331 rpm, 11 min. (First aid training, no. 3)
With manual.
Summary: Shows the circulatory, respiratory, digestive, and nervous systems of the body.
- Burns (Filmstrip)** Jam Handy Organization, 1942.
35 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 9 min. (First aid training, no. 13)
With manual.
Summary: First aid treatment for burns and scalds.

- Care and treatment of face and jaw wounds (Filmstrip)** U. S. War Dept., 1942.
37 fr., b&w, 35 mm.
Order no. FS 8-303.
Summary: Demonstrates first aid and therapy for various types of wounds of soft tissues and bony structures, control of hemorrhage, cleansing and maintenance of air passages, application of traction, treatment of shock, infection, use of antibiotics, tetanus, diphtheria, and surgical measures. For medical personnel.
- Common emergencies (Filmstrip)** Jam Handy Organization, 1942.
62 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 11 min. (First aid training, no. 6)
With manual.
Summary: Shows first-aid treatment for appendicitis, choking, diarrhea, earache, toothache, common cold, sunburn, poison ivy, poison oak, insect bites, and fainting.
- Control of hemorrhage: Face and jaw wounds (Filmstrip)** U. S. War Dept., 1942.
37 fr., b&w, 35 mm.
Order no. FS 8-304.
Summary: Demonstrates proper methods of controlling hemorrhage by direct digital or compress pressure, fixation of blood vessels, elevation and fixation of a part for the prevention of shock, and placement of injured on a litter and in an ambulance during evacuation.
- Dressings and bandages, part 1 (Filmstrip)** Jam Handy Organization, 1942.
47 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 13 min. (First aid training, no. 10)
With manual.
Summary: Shows the kinds of materials used in bandaging wounds, and how to apply bandages.
- Dressings and bandages, part 2 (Filmstrip)** Jam Handy Organization, 1942.
42 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 11 min. (First aid training, no. 11)
With manual.
Summary: Shows how to apply various commonly used bandages.
- First aid series (Filmstrip)** Society for Visual Education, Inc.
7 filmstrips, b&w, 35 mm.
Contents: 1. Artificial respiration and its uses, 25 fr.—2. Bandaging (Parts 1 and 2), 85 fr.—3. Control of bleeding, 34 fr.—4. Fractures, 36 fr.—5. Transportation of the injured, 48 fr.—6. Treatment for bleeding—Shock—Preventing infection, 101 fr.—7. Wounds, 35 fr.
- Fractures: splints (Filmstrip)** Jam Handy Organization, 1942.
64 fr., b&w, 35 mm. and disc: 2 s., 12 in., 331 rpm, 14 min. (First aid training, no. 17)
With manual.
Summary: Shows how to apply fixed traction splints.

MEDICINE—First Aid

- Fractures: treatment (Filmstrip)** Jam Handy Organization, 1942.
55 fr., b&w, 35 mm. and disc: 2 s., 12 in., 331 rpm, 13 min. (First aid training, no. 16)
With manual.
Summary: How to treat fractures of skull, nose, jaw, spine, ribs, pelvis, thigh, forearm, foot, and toe.
- Fractures: types (Filmstrip)** Jam Handy Organization, 1942.
54 fr., b&w, 35 mm. and disc: 2 s., 12 in., 331 rpm, 12 min. (First aid training, no. 15)
With manual.
Summary: Shows two principal types of fractures, general first aid and specific treatment for fractures of leg, forearm, upper arm, elbow, finger, and collarbone.
- Minor injuries (Filmstrip)** Jam Handy Organization, 1942.
69 fr., b&w, 35 mm. and disc: 2 s., 12 in., 331 rpm, 13 min. (First aid training, no. 7)
With manual.
Summary: Shows first-aid treatment for strains, sprains, dislocations, bruises, frostbite, and foreign bodies in the eye, ear, nose, and throat.
- Moving the injured: carrying (Filmstrip)** Jam Handy Organization, 1942.
54 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 10 min. (First aid training, no. 18)
With manual.
Summary: Shows how to improvise a stretcher and how to carry the injured when a stretcher can not be made quickly.
- Moving the injured: stretchers (Filmstrip)** Jam Handy Organization, 1942.
41 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 10 min. (First aid training, no. 19)
With manual.
Summary: Shows how to move the injured on various types of stretchers.
- Poison (Filmstrip)** Jam Handy Organization, 1942.
33 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 7 min. (First aid training, no. 14)
With manual.
Summary: Shows first-aid treatment for drug, food, and carbon monoxide poisoning.
- The purpose of first aid (Filmstrip)** Jam Handy Organization, 1942.
61 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 8 min. (First aid training, no. 1)
With manual.
Summary: Explains the purpose of first aid and its applications. Introduction to the series of filmstrips.
- Shock (Filmstrip)** Jam Handy Organization, 1942.
39 fr., b&w, 35 mm. and disc: 1 s., 12 in., 331 rpm, 6 min. (First aid training, no. 4)
With manual.
Summary: How to recognize and treat victims of shock.

MEDICINE—First Aid

Unconsciousness (Filmstrip) Jam Handy Organization, 1942.

30 fr., b&w, 35 mm. and disc: 2 a., 12 in., 333 rpm, 12 min. (First aid training, no. 5)

With manual.

Summary: Shows first-aid treatment for unconsciousness due to heat stroke, heat exhaustion, apoplexy, fainting, etc.

Wounds, part 1 (Filmstrip) Jam Handy Organization, 1942.

30 fr., b&w, 35 mm. and disc: 1 a., 12 in., 333 rpm, 9 min. (First aid training, no. 6)

With manual.

Summary: Shows various ways to stop bleeding and precautionary measures to prevent infection.

Wounds, part 2 (Filmstrip) Jam Handy Organization, 1942.

30 fr., b&w, 35 mm. and disc: 1 a., 12 in., 333 rpm, 10 min. (First aid training, no. 6)

With manual.

Summary: Shows first-aid treatment for abrasions, clean-cut wounds, lacerated or torn wounds, animal bites, and snake bites.

MEDICINE—Hospitals

Disinfection of clinical thermometers. Part 1: Oral thermometers (Filmstrip) U. S. Public Health Service, 1952.

37 fr., color, 35 mm. and disc: 1 a., 12 in., 333 rpm, 20 min.

Order no. F212.

Summary: Describes procedures to be followed in disinfecting and disinfecting oral thermometers.

The high speed blender (Filmstrip) U. S. Public Health Service in cooperation with Biological Laboratories, U. S. Army Chemical Corps, 1952.

31 fr., color, 35 mm. and disc: 1 a., 12 in., 333 rpm, 10 min. (Infectious hazards of bacteriological techniques, no. 4)

Order no. F27-a.

Summary: Demonstrates how a high speed blender may liberate dangerous germs from cultures of infectious organisms, and suggests the use of a ventilated safety cabinet.

The hospital of tomorrow (Filmstrip) U. S. Public Health Service, 1948.

30 fr., b&w, 35 mm.

With script and 12 2 1/2 in. slides.

Summary: Explains the need for more and better hospitals in the United States and the progress of the Hospital Survey and Construction Act of 1946.

The hypodermic syringe (Filmstrip) U. S. Public Health Service in cooperation with Biological Laboratories, U. S. Army Chemical Corps, 1952.

36 fr., color, 35 mm. and disc: 1 a., 12 in., 333 rpm, 12 min. (Infectious hazards of bacteriological techniques, no. 2)

Order no. F27-a.

Summary: Shows and explains ways of avoiding hypodermic syringe techniques which may liberate dangerous germs from cultures of infectious organisms.

The inoculating needle (Filmstrip) U. S. Public Health Service in cooperation with Biological Laboratories, U. S. Army Chemical Corps, 1951.

102 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 9 min. (Infectious hazards of bacteriological techniques, no. 1)

Order no. F27-a.

Summary: Shows material presented in motion picture with same title (order no. F27-a)

Summary: Demonstrates some of the hazards involved in using the inoculating needle in laboratory experiments, and gives safety rules for the technician to follow.

The typhoidizer (Filmstrip) U. S. Public Health Service in cooperation with Biological Laboratories, U. S. Army Chemical Corps, 1951.

75 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 5 min. (Infectious hazards of bacteriological techniques, no. 5)

Order no. F27-a.

Summary: Demonstrates how dangerous germs from cultures of infectious bacteria are liberated during the typhoidizing and use of infected organisms, and recommends that typhoidizing of highly infectious organisms be done in a ventilated cabinet.

The pipette (Filmstrip) U. S. Public Health Service in cooperation with Biological Laboratories, U. S. Army Chemical Corps, 1951.

35 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 9 min. (Infectious hazards of bacteriological techniques, no. 3)

Order no. F27-a.

Summary: Demonstrates the hazards involved in several common techniques of using the pipette and how these techniques can be modified to reduce the danger from bacterial aerosols.

MEDICINE—Hygiene

At home and school with Tom and Nancy (Filmstrip) Jam Handy Organization, 1951. © The Jam Handy Organization, Inc., 16Jul51; JPI1055, JPI149, JPI146-147, JPI150, JPI148.

4 filmstrips, color, 35 mm.

Summary: A day in the lives of twins in a primary grade, with emphasis on health, cleanliness, safety, and recreation. Characters—Tom and Nancy start the day. 26 fr.—2. The safe way to school. 27 fr.—3. A very morning is school. 28 fr.—4. Lunch and play at school. 29 fr.—5. The birthday party. 30 fr.—6. Fun at home. 31 fr.

Avoiding germs (Filmstrip) Curriculum Films, 1951.

35 fr., color, 35 mm. (Your health series)

Kastman color.

With teacher's manual.

Summary: Explains that although harmful germs exist all around, there are many ways in which their effects can be controlled. Discusses the ways in which an individual can protect himself against germs.

Avoiding infection: treating a cold (Filmstrip) William P. Gottlieb Co. Released by Encyclopedia Britannica Films, 1953.

47 fr., color, 35 mm. (Health stories)

Kastman color.

Summary: A young boy who has a cold and cannot go on a holiday decides that he will take precautions in the future in order to avoid cold germs. Captioned drawings.

Care of eyes and ears (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Your health series)

Kastman color.

With teacher's manual.

Summary: Illustrates the importance of good eye and ear hygiene and shows ways of protecting the eyes.

Care of hair and nails (Filmstrip) Encyclopedia Britannica Films, 1951. © Encyclopedia Britannica Films, Inc.; 31Dec51; JPI157.

56 fr., b&w, 35 mm. (Keeping healthy)

Based on the classroom film of the same title.

Summary: Describes the growth and proper care of hair and nails and shows common diseases of the scalp.

Care of nose and throat (Filmstrip) Curriculum Films, 1951.

35 fr., color, 35 mm. (Your health series)

Kastman color.

With teacher's manual.

Summary: Shows how the mechanism of the nose and throat operate to protect health, and how one can cooperate in avoiding, as well as recovering from, an infection.

Care of teeth (Filmstrip) Curriculum Films, 1951.

35 fr., color, 35 mm. (Your health series)

Kastman color.

With teacher's manual.

Summary: Explains the structure of the teeth, and how a tooth decays. Shows how each individual can help prevent tooth decay, and discusses the necessity of regular visits to the dentist.

Care of the skin (Filmstrip) Encyclopedia Britannica Films, 1951. © Encyclopedia Britannica Films, Inc.; 31Dec51; JPI124.

61 fr., b&w, 35 mm. (Keeping healthy)

Based on the classroom film of the same title.

Summary: Demonstrates good habits of skin hygiene for children; describes common skin ailments and the structure of the skin.

Checking your health (Filmstrip) William P. Gottlieb Co. Released by Encyclopedia Britannica Films, 1953.

45 fr., color, 35 mm. (Health stories)

Kastman color.

Summary: A young boy goes to the doctor for a physical examination and learns the value of preventive medicine in securing good health. Captioned drawings.

Cleanliness (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Your health series)

Kastman color.

With teacher's manual.

Summary: Discusses the importance of a clean skin for resisting disease-carrying germs; the reasons for practices in personal cleanliness; and the building of habits of cleanliness in person, clothes, home, and community to help insure a healthful life.

MEDICINE—Hygiene

Common cold (Filmstrip) Encyclopedia Britannica Films, 1951. © Encyclopedia Britannica Films, Inc.; 31Dec51; JPI123.

61 fr., b&w, 35 mm. (Keeping healthy)

Based on the classroom film of the same title.

Summary: A young boy learns how cold germs enter the body, how other illnesses may result from a cold, and how to avoid and treat a cold.

Community helpers for health (Filmstrip) Eye Gate House, 1950.

25 fr., color, 35 mm. (Good health and you)

With teacher's manual.

Summary: Describes some of the health activities of such organizations as the Community Chest, Public Health Service, National Foundation for Infantile Paralysis, Federal and local government agencies, and the American Red Cross. For primary and elementary grades.

Controlling germs (Filmstrip) Curriculum Films, 1951.

27 fr., color, 35 mm. (Health and safety series)

Kastman color.

Revised version of the 1949 filmstrip.

With teacher's manual.

Summary: Explains that some bacteria keep us healthy and other bacteria might make us sick. Reminds children about germs and how to control them. Emphasizes why food should be kept clean, why hands should be washed before eating, what to do in case of an accident, and how to keep kids from spreading to others. For primary grades.

Cooperating with others (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Your health series)

Kastman color.

With teacher's manual.

Summary: Discusses the concept that an individual's good health is important both to himself and to the community, and emphasizes his responsibility to cooperate with public and professional health authorities.

Experiences in living series (Filmstrip) Young America Films, Inc., 1952.

41 fr., b&w, 35 mm. (Primary health series)

Contents: 1. We go to school. 35 fr.—2. We make some safety rules. 34 fr.—3. We plan together. 27 fr.—4. We visit the dentist. 29 fr.—5. We visit the doctor. 35 fr.—6. We work together. 32 fr.

Food for health (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Health and safety series)

Kastman color.

Revised version of the 1949 filmstrip.

With teacher's manual.

Summary: Explains what foods are good for us, why we should eat a balanced lunch, how to choose a balanced lunch, and the importance of cleanliness around food. For primary grades.

Food for health (Filmstrip) Young America Films, 1947.

41 fr., b&w, 35 mm. (Primary health series)

With teacher's guide.

Summary: Two children, who are visiting their grandparents' farm, tell of the healthful things they eat and the interesting time they are having. For primary grades.

Summary: Explains that medical science has brought life expectancy in the U. S. to about 70 years, and must now fight against health problems of old age. Shows that practicing good health habits will assure a long life relatively free from disease.

41 fr., b&w, 35 mm. (Teen-age clothing series)
Correlated with How you look and dress, by Hytta Carson.
Summary: Explains the importance of posture, cleanliness, care of
nails, care and styling of hair, and application of makeup.

26 fr., color, 35 mm. (Good health and you)

With teacher's manual.

Summary: Explains that exercise is a good health habit. Shows games with a basketball on the playground, running games, a family week-end picnic, and folk dances and square dances in the gymnasium. For primary and elementary grades.

20 fr., color, 35 mm. (Good health and you)

With teacher's manual.

Summary: Explains proper care of the eyes—read in a good light, don't rub your eyes, go to a doctor if your eyes hurt. Shows a little girl who goes to the doctor, is given a Snellen chart test, and receives a pair of glasses. For primary and elementary grades.

Contents: 1. Better safe than sorry, 45 fr.—2. How to grow well and strong, 45 fr.—3. Keeping clean, 45 fr.—4. Keeping sickness away, 45 fr.—5. Protecting our eyes and ears, 45 fr.—6. Working and playing together, 45 fr.

25 ft., color, 35 mm. (Good health and you)
With teacher's manual.
Summary: Explains that good teeth help us to keep good health. Points out that we should brush our teeth to keep them clean, that some foods make good teeth, that we should visit the dentist, and that dentists sometimes X-ray teeth. For primary and elementary grades.

40 fr., color, 35 mm. (Health stories)

51 fr., color, 33 mm. (Health stories)
Eastman color.
Summary: Captioned drawings are used in telling the story about six germs that find it impossible to make a little girl sick because her water is sterilized, her milk is pasteurized, her fruits and vegetables are washed, her home has screens and is clean, her teeth are properly brushed, and she has a mother who is scrupulously clean, and who takes care of her

37 fr., bdw, 35 mm. (Primary health series)

51 fr., color, 35 mm. (Health stories)

27 fr., color, 35 mm. (Health and safety series)
Eastman color.
Revised version of the 1949 filmstrip.
With teacher's manual.
Summary: Shows what the school does to protect each child's health, and explains ways in which the average child can help protect his own health—exercise, rest, proper clothing, fresh air, good light for reading, etc. Points out the roles of nurses, doctors, teachers, school custodians, and parents in helping to keep children healthy.
For primary grades.

36 fr., color, 35 mm. (Primary health series)
New ed.
With teacher's guide.
Summary: Tells about the germs which cause sickness and where they are likely to be encountered. Gives simple rules to observe in keeping healthy. For primary grades.
Eastman color.

28 fr., b&w, 35 mm. (Health education series (no. 2))

Order no. 5-135.
Summary: Discusses the importance of oral hygiene and of oral prophylaxis by a dentist or dental hygienist every six months, and demonstrates methods of home care of the teeth.

45 fr., b/w, 35 mm. (Good health series)

With teacher's guide.

Summary: Cartoon treatment showing rules to follow to avoid "Peaky," the cold germ. Describes care to be taken when a cold is contracted. For middle grades.

25 fr., color, 35 min. (Your health series)
Eastman color
With teacher's manual.
Summary: Shows how posture may be achieved, and the resultant benefits in improved appearance and a strong, flexible body.

4 filmstrips, color, 35 mm.

Summary: Two small children learn about caring for their bodies, eating good food, and wearing appropriate clothing.

Contents: 1. A surprise for Susan and Peter. 36 fr.—2. Susan and Peter go to market. 34 fr.—3. Susan and Peter visit Grandfather's farm. 38 fr.—4. Susan and Peter dress to match the weather. 36 fr.

50 fr., color, 35 mm. (Health stories)
Eastman color.
Summary: A young boy visits his cousin and learns that in order to be energetic and to feel well he should start the day with a good breakfast, try to eat all foods, and include in his diet a variety of nutritious foods. Captioned drawings.

32 fr., color, 35 mm. (Primary health series)
New ed.
With teacher's guide.
Summary: Explains why children need sleep and rest, and gives the basic rules that insure restful sleep. For primary grades.
Eastman color.

25 fr., color, 35 mm. (Good health and you)

With teacher's manual.

Summary: Two children demonstrate the use of thin clothing in summer, heavy clothing in winter, and a raincoat, umbrella, and rubbers in the rain. They explain about caring for clothing—having it mended, handling clothes neatly, etc. For primary and elementary

21Dec51, JP1125.
50 fr., b&w, 35 mm. (Keeping healthy)
Based on the classroom film of the same title.
Summary: Explains tooth decay and discusses its prevention through careful cleaning, proper diet, and the use of sodium fluoride solution.

58 fr., b&w, 35 mm. (Keeping healthy)
Based on the classroom film of the same title.
Summary: Children learn the importance of regular sleeping habits
in promoting good health and happiness.

MEDICINE—Hygiene

38 fr., color, 35 mm. (Primary health series)
New ed.
With teacher's guide.
Summary: Shows what constitutes good posture and why it is desirable. For primary grades.
Eastman color.

55 fr., color, 35 mm. (Primary health series)
New ed.
With teacher's guide.
Summary: Shows two children doing the everyday things that maintain good teeth, with emphasis on the necessity of establishing regular habits in the care of teeth. For primary grades.

20 fr., color, 35 mm. (Good health and you)

With teacher's manual.

Summary: Depicts a small boy in the hospital where his classmates show him various attentions to indicate that they miss him; and little girl who is sick at home, must rest a great deal, and is visited by her friends. For primary and elementary grades.

1952.
41 fr., color, 35 mm. (Good health series)
New ed.
With teacher's guide.
Summary: Outlines the suitable types of clothing to wear in various kinds of weather. Explains the proper care of clothing. For middle grades.
Sagman color.

41 fr., color, 35 mm. (Good health series)
New ed.
With teacher's guide.
Summary: Discusses the principal food groups and explains what each group does to provide the body with energy and materials for growth and health. For middle grades.

Summary: Explains the importance of good grooming and the basic elements that influence its achievement. For high school and college groups.

45 fr., b&w, 35 mm. (Grooming for girls series (6))
With teacher's guide.
Summary: Shows clothing as a basic element in good grooming, and explains how to select and care for clothing. For high school and college groups.

MEDICINE—Hygiene

Your face (Filmstrip) Centron Corp. Released by Young America Films, 1951.

42 fr., b&w, 35 mm. (Grooming for girls series (A))

With teacher's guide.
Summary: Shows that maintaining a fresh complexion is an inside-outside operation. Stresses the outside operations of clean-up and make-up—washing; cream cleansing; care of dry skin, blemishes, etc.; selection of make-up color; and the application of powder, rouge, and lipstick. For high school and college groups.

Your figure (Filmstrip) Centron Corp. Released by Young America Films, 1951.

38 fr., b&w, 35 mm. (Grooming for girls series (A))

With teacher's guide.
Summary: Illustrates four essential elements in achieving a good figure. Shows how to improve posture; explains the requirements of a good diet; tells how to select a foundation garment; and demonstrates corrective exercises for the figure. For high school and college groups.

Your hair (Filmstrip) Centron Corp. Released by Young America Films, 1951.

40 fr., b&w, 35 mm. (Grooming for girls series (A))

With teacher's guide.
Summary: Shows styling and care of the hair—shampooing the hair; setting it after the shampoo; brushing, and styling the hair to fit one's personality. For high school and college groups.

Your hands and feet (Filmstrip) Centron Corp. Released by Young America Films, 1951.

41 fr., b&w, 35 mm. (Grooming for girls series (A))

With teacher's guide.
Summary: Illustrates the grooming of the hands and feet—washing, manicure and pedicure, application of nail polish, etc. For high school and college groups.

Your lungs and how you breathe (Filmstrip) Eye Gate House, 1954.

24 fr., color, 35 mm. (Your body and how to take care of it)

With teacher's manual.
Summary: Illustrates how the lungs function, explains what health measures are necessary in order to maintain the health of the lungs, and points out how lungs are affected by dust, inhalation of smoke, etc.

Your posture—good or bad (Filmstrip) Young America Films, 1952.

34 fr., color, 35 mm. (Good health series)

New ed.
With teacher's guide.
Summary: Shows the importance of good posture, the main points to remember in maintaining it, and how the effects of fatigue and infection contribute to poor posture. For middle grades.
Screening color.

MEDICINE—Laboratories Procedures

Coccidiosis immitis (Filmstrip) U. S. Public Health Service, 1953.

60 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 8 min. (Laboratory identification of coccidiosis (A))

Order no. F 115-4.
Summary: Gives a brief clinical picture of coccidiosis and explains a laboratory technique for isolating and identifying *Coccidiosis immitis*.

Collection of blood specimens for serological examination (Filmstrip) U. S. Public Health Service, 1952.

60 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 9 min.

Order no. F 134.
Summary: Emphasizes the importance of blood specimens and shows how to collect a specimen from a patient at a clinic and at home, including preparation of equipment, technique of venipuncture, and use of a Sclerite tube.

Collection of fecal specimens (Filmstrip) U. S. Public Health Service, 1953.

54 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 7 min.

Order no. F 133.
Summary: Emphasizes the importance of fecal specimens and explains the selection of a suitable container and preservative, procedures a patient should follow in collecting the specimen, preparation and use of rectal probe, and use of two-hole PVA fixation equipment.

Collection of specimens from the eye, nose, and throat (Filmstrip) U. S. Public Health Service, 1952.

45 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 6 min.

Order no. F 135.
Summary: Emphasizes the importance of eye, nose, and throat culture specimens; and explains the preparation of equipment for the collection of such specimens, the routine in taking specimens from selected cases, preparation of specimens for shipment to the laboratory, and interpretation of laboratory reports.

Collection of sputum specimens (Filmstrip) U. S. Public Health Service, 1953.

60 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 8 min.

Order no. F 132.
Summary: Explains the principles of and the procedures for obtaining sputum specimens by coughing, the postural method, and gastric washings.

The laboratory diagnosis of schistosomiasis (Filmstrip) U. S. Public Health Service, 1950.

67 fr., color, 35 mm. and disc: 2 a., 16 in., 331 rpm, 16 min.

Order no. S-341.
Summary: Emphasizes the serious nature of schistosomiasis and the importance of early diagnosis; and explains the methods of diagnosis with primary emphasis upon Schistosoma japonicum and Schistosoma mansoni.

Laboratory diagnosis of tinea capitis in children: Microsporum infections (Filmstrip) U. S. Public Health Service, 1950.

60 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 9 min.

Order no. S-327.
With utilization guide.
Summary: Explains the clinical signs of tinea capitis in children, the means of demonstrating the mycotic nature of such infections, procedures for isolating the etiologic agents involved, and their macroscopic and microscopic details.

Laboratory diagnosis of Trichophyton infections. Part 1: Ectothrix infections of the beard and scalp (Filmstrip) U. S. Public Health Service, 1952.

77 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 13 min.

Order no. F 144-b.
Summary: Explains the procedure for the diagnosis of ectothrix ringworm of the beard and scalp caused by *Trichophyton mentagrophytes* and *Trichophyton tonsurans*.

Laboratory diagnosis of Trichophyton infections. Part 2: Endothrix infections of the scalp (Filmstrip) U. S. Public Health Service, 1952.

58 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 10 min.

Order no. F 144-b.
Summary: Explains the procedure for the diagnosis of endothrix ringworm of the scalp caused by *Trichophyton tonsurans* and *Trichophyton violaceum*.

Microdissection applied to mosquito identification (Filmstrip) U. S. Public Health Service, 1953.

44 fr., b&w, 35 mm. and disc: 1 a., 16 in., 331 rpm, 8 min.

Order no. F 141.
Summary: Explains the value, for identification purposes, of properly dissected male mosquito terminalia, preparation of the apparatus for microdissection, the microdissection, unroofing parts of the terminalia, and examining them microscopically.

A mycological slide culture technique (Filmstrip) U. S. Public Health Service, 1951.

36 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 4 min.

Order no. F-24.
Summary: Shows how to grow fungi on glass slides in a moist chamber in order to observe the undisturbed relationship between reproductive structures and mycelium.

PVA-fixative technique in the diagnosis of amebiasis (Filmstrip) U. S. Public Health Service, 1950.

72 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 9 min.

Order no. S-353.
Summary: Demonstrates a method of preserving fecal specimens in PVA fixative, examination of specimens, and shipment of specimens.

The preparation of hematoxylin stained smears for diagnosis of intestinal protozoa (Filmstrip) U. S. Public Health Service, 1950.

60 fr., b&w, 35 mm. and disc: 1 a., 16 in., 331 rpm, 8 min.

Order no. S-352.
Summary: Explains in detail the steps in preparing hematoxylin stained smears necessary to the diagnosis of intestinal protozoa.

MEDICINE—Nursing

Preparing blood films for microscopical examination (Filmstrip) U. S. Public Health Service, 1947.

60 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 11 min.

Order no. S-271.
Summary: Explains how to clean microscope slides and prepare thick and thin blood films for use in microscopical diagnosis of malaria.

Sampling and testing drinking water (Filmstrip) U. S. Public Health Service, 1950.

74 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 8 min.

Order no. S-340.
Summary: Presents instructions to be followed by sanitarians in the sampling of drinking water sources and in the procedure for identifying coliform organisms in drinking water.

Simplified serologic identification of Shigella cultures (Filmstrip) U. S. Public Health Service, 1951.

39 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 6 min. (Isolation and identification of Shigella and Shigella cultures series, no. 2)

Order no. S-170.
Summary: Shows how Shigella cultures are grouped serologically and confirmed biochemically. Throat five groups: *Shigella dysenteriae*, *Shigella flexneri*, *Shigella sonnei*, and *Shigella sonnei*. For scientific personnel.

MEDICINE—Nursing

Body mechanics (Filmstrip) McGraw-Hill Book Co., 1953. Made by Sturgis-Grant Productions.

44 fr., b&w, 35 mm. (Simple nursing series. Set no. 1)

Correlated with Illustrated handbook of simple nursing by Mary McCallough and Marjorie Blum.
Summary: Outlined system drawings are used to show how good posture and correct use of body muscles can reduce fatigue incurred while standing, sitting, and lifting, and in the care and handling of a patient.

Buying good food (Filmstrip) U. S. Public Health Service, 1950.

50 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 8 min. (Talking care of diabetes series, no. 6)

Order no. S-146.
With film guide and kit of supplementary materials.
Summary: Explains how foods are arranged in groups called "exchange lists" and how diabetes can use such lists to select a variety of foods.

Care of the cardiac patient (Filmstrip) U. S. Department of Health, Education, and Welfare, U. S. Public Health Service, 1945.

48 fr., b&w, 35 mm.

Care of the feet (Filmstrip) U. S. Public Health Service, 1950.

49 fr., color, 35 mm. and disc: 1 a., 16 in., 331 rpm, 8 min. (Talking care of diabetes series, no. 7)

Order no. S-150.
With film guide and kit of supplementary materials.
Summary: Explains why the diabetic patient should take care of his feet, and shows methods to be followed.

MEDICINE—Nursing

Care of the hospital unit (Filmstrip) McGraw-Hill Book Co., 1953. Made by Sturgis-Grant Productions.
44 fr., b&w, 35 mm. (Simple nursing series. Set no. 1)
Correlated with illustrated handbook of simple nursing, by Wava McCullough and Marjorie Moffit.
Summary: Captioned cartoon drawings are used to explain how to clean and prepare a hospital unit for the arrival of a new patient.

Care of the newborn baby: the nurse's role in instructing the parents (Filmstrip) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945.
Produced by John A. Huesler.
30 fr., b&w, 35 mm. (Nursing series)
Order no. 51-12-14.
With instructor's manual. Supplements motion picture of same title.
Summary: Nurse's functions and duties in teaching parents to care for newborn babies; what the nurse can do in the home, clinic, and hospital; and how to hold, dress, bathe, and feed a baby.

Care of the patient with diabetes mellitus: complicated (Filmstrip) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.
40 fr., b&w, 35 mm. (Nursing series)
Order no. 51-12-14.
With instructor's manual. Supplements motion picture of same title.
Summary: Nurse's role in the diagnosis and treatment of coma and insulin shock, and the role of the nurse, doctor, dietitian, and psychiatrist in assisting the patient to develop a healthy mental attitude toward his condition.

Care of the patient with diabetes mellitus: uncomplicated (Filmstrip) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.
40 fr., b&w, 35 mm. (Nursing series)
Order no. 51-12-14.
With instructor's manual. Supplements motion picture of same title.
Summary: Symptoms of diabetes; how the nurse teaches the patient to administer insulin injections, regulate diet, and make the Benedict test for sugar in the urine.

Cooking good meals (Filmstrip) U. S. Public Health Service, 1950.
48 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 8 min. (Taking care of diabetes series, no. 8)
Order no. 5-148.
With film guide and kit of supplementary materials.
Summary: Demonstrates various ways of preparing foods for the diabetic and his family.

Diabetic coma (Filmstrip) U. S. Public Health Service, 1950.
33 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 5 min. (Taking care of diabetes series, no. 9)
Order no. 5-149.
With film guide and kit of supplementary materials.
Summary: Explains the reasons for and the symptoms of diabetic coma, and the methods of keeping diabetes under control in order to avoid diabetic coma.

Eating for good health (Filmstrip) U. S. Public Health Service, 1950.
40 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 7 min. (Taking care of diabetes series, no. 2)
Order no. 5-142.
With film guide and kit of supplementary materials.
Summary: Stresses the importance of diet in diabetes control and suggests ways of planning meals.

General principles of practical nursing (Filmstrip) McGraw-Hill Book Co., 1953. Made by Sturgis-Grant Productions.
45 fr., b&w, 35 mm. (Simple nursing series. Set no. 1)
Correlated with illustrated handbook of simple nursing, by Wava McCullough and Marjorie Moffit.

Summary: Captioned cartoon drawings are used to describe various types of practical nursing. Stresses the importance of adapting nursing routines to suit the specific situation in which the nurse finds herself.

The home environment (Filmstrip) McGraw-Hill Book Co., 1953. Made by Sturgis-Grant Productions.
40 fr., b&w, 35 mm. (Simple nursing series. Set no. 1)
Correlated with illustrated handbook of simple nursing, by Wava McCullough and Marjorie Moffit.
Summary: Captioned cartoon drawings are used to explain how to improve equipment when nursing a patient in the home and how to establish a pleasant relationship with the patient's family.

Hygiene (Filmstrip) McGraw-Hill Book Co., 1953. Made by Sturgis-Grant Productions.
45 fr., b&w, 35 mm. (Simple nursing series. Set no. 1)
Correlated with illustrated handbook of simple nursing, by Wava McCullough and Marjorie Moffit.

Summary: Captioned cartoon drawings are used to describe the routine care necessary to maintain the comfort and well-being of a patient. Explains how to assist a patient in using the bed pan, how to give a bath and a bed shampoo, and how to give special care to the patient's mouth, back, and feet.

Insulin and its use (Filmstrip) U. S. Public Health Service, 1950.
60 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 13 min. (Taking care of diabetes series, no. 3)
Order no. 5-147.
With film guide and kit of supplementary materials.
Summary: Explains the function of insulin in the control of diabetes, the kinds and strengths of insulin, and the method of injection.

Insulin reaction (Filmstrip) U. S. Public Health Service, 1950.
30 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 6 min. (Taking care of diabetes series, no. 3)
Order no. 5-145.
With film guide and kit of supplementary materials.
Summary: Explains the characteristics of a diabetic's reaction to too much insulin, the causes of insulin reaction, and the methods of preventing and treating insulin reaction.

Jimmy beats rheumatic fever (Filmstrip) Metropolitan Life Insurance Co., 1944. Made by E. J. Barnes Associates.
1 roll, b&w, 35 mm. and disc: 333 rpm, 15 min.
Summary: As 8-year-old boy's own story of his successful battle with rheumatic fever. His mother calls the physician, preparing and a diagnosis of rheumatic fever is made in the early stages. Under medical guidance, Jimmy's mother aids his recovery by keeping him amused and interested during his months in bed. Stresses beneficial living habits and medical supervision to prevent a recurrence.

The morphine syrette (Filmstrip) U. S. War Dept., 1944.
36 fr., b&w, 35 mm.

Order no. 5-146-74.
Summary: Describes the method of using the morphine syrette. Also stresses the indications and limitations governing the use of morphine.

The patient's bed (Filmstrip) McGraw-Hill Book Co., 1953. Made by Sturgis-Grant Productions.
47 fr., b&w, 35 mm. (Simple nursing series. Set no. 1)

Correlated with illustrated handbook of simple nursing, by Wava McCullough and Marjorie Moffit.
Summary: Captioned cartoon drawings are used to show how to operate a hospital bed. Explains how to make an empty hospital bed, how to change a bed which is occupied by a patient, and how to prepare a post-operative bed.

Planning good meals (Filmstrip) U. S. Public Health Service, 1950.
32 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 9 min. (Taking care of diabetes series, no. 4)
Order no. 5-144.
With film guide and kit of supplementary materials.

Summary: Explains how a diabetic can plan a wide variety of meals by using a meal plan and "exchange lists" of foods that can be used for variety.

Radiotherapy: high dosage treatment (Filmstrip) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.
50 fr., b&w, 35 mm. (Nursing series)
Order no. 51-12-14.
With instructor's manual. Supplements motion picture of same title.
Summary: Nature and physiological effects of high dosage X-rays; administration of X-ray treatment for carcinoma of the tongue; function and administration of radon seeds; factors in care of patients receiving X-ray therapy.

Selecting meals for all occasions (Filmstrip) U. S. Public Health Service, 1950.
52 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 8 min. (Taking care of diabetes series, no. 11)
Order no. 5-151.
With film guide and kit of supplementary materials.
Summary: Shows how a diabetic person can select the right foods to eat in different situations and explains how to use the "meal plan" and "exchange lists" in planning meals. When the patient is ill, taking lunch to work, going on a picnic, eating at a friend's home, and eating in a restaurant.

Technique of venipuncture (Filmstrip) American National Red Cross, 1952. Produced by Ilecton Dickinson Foundation.
70 fr., color, 35 mm. (Training series for nurses, no. 1)
Revised 1952.

Summary: Demonstrates the steps involved in the withdrawal of blood, including the preparation of the equipment, the correct methods for the insertion of the needle, and the proper care for both the blood and the donor.

Tests in diabetes (Filmstrip) U. S. Public Health Service, 1950.
33 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 6 min. (Taking care of diabetes series, no. 7)

Order no. 5-147.
With film guide and kit of supplementary materials.
Summary: Explains the reasons for urine and blood sugar tests for diabetes and the use of both types of tests.

MEDICINE—Ophthalmology

Therapeutic uses of heat and cold: part 1: Administering hot applications (Filmstrip) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.
30 fr., b&w, 35 mm. (Nursing series)
Order no. 51-12-14.
With instructor's manual. Supplements motion picture of same title.
Summary: Body reactions to heat; use of heat in the alleviation of pain; how to apply hot water bottle, electric pads, chemical pads, and towels; bath; use hot pack, compress, infrared lamp, and shortwave diathermy.

Therapeutic uses of heat and cold: part 2: Administering cold applications (Filmstrip) U. S. Office of Education with the cooperation of U. S. Public Health Service, 1945. Produced by Willard Pictures.
40 fr., b&w, 35 mm. (Nursing series)
Order no. 51-12-14.
With instructor's manual. Supplements motion picture of same title.
Summary: Body responses to cold; therapeutic uses of cold; how to administer contrast baths and ice bags; apply ice packs as anes- thetics; and use refrigerating blankets and cold chamber.

What is diabetes? (Filmstrip) U. S. Public Health Service, 1950.

47 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 8 min. (Taking care of diabetes series, no. 1)
Order no. 5-141.
With film guide and kit of supplementary materials.
Summary: Explains in simple terms the nature of diabetes and its control through diet and the use of insulin.

Your friend, the public health nurse (Filmstrip) Metropolitan Life Insurance Company, 1946.
76 fr., b&w, 35 mm.
Summary: Episodes in work for public health nurses; kinds of people served; problems met; how family and community health benefit by nurse's work.

MEDICINE—Ophthalmology

The embryology of the eye (Filmstrip) American Academy of Ophthalmology and Otolaryngology, 1950. Made by Sturgis-Grant Productions.
176 fr., color, 35 mm.

Supplements the motion picture of the same title.
Summary: Presents the development of the eye: the optic cup, lens, retina, vitreous and optic nerve, the anterior eye regions and orbit, the vascular system, and the facial region. For students of ophthalmology and ophthalmology.

MEDICINE—Parasitology

MEDICINE—Parasitology

Hookworm disease and hookworm infection (Filmstrip)

U. S. Public Health Service, 1948.

77 fr., color, 35 mm. and disc: 1 a, 16 in., 331 rpm, 12 min.
 Order no. 5-074.
 Summary: Gives a general explanation of the history, diagnosis, treatment, and prevention of hookworm disease.

Identification of female anophelines of the United States (Filmstrip)

U. S. Public Health Service, 1946.

73 fr., color, 35 mm. and disc: 2 a, 16 in., 331 rpm, 21 min.
 Order no. 5-075.
 Summary: Explains the distinguishing characteristics of 13 species of anophelines—wing patterns, head, thorax, wing tip scales, base of legs, and antennae. Includes a test section of 10 pictures.

Identification of malaria in thick blood films (Filmstrip)

U. S. Public Health Service, 1945.

39 fr., color, 35 mm. and disc: 1 a, 16 in., 331 rpm, 7 min.
 Order no. 5-076.
 Summary: Based on material presented in the filmstrip Identification of malaria parasites in thin blood films.
 Summary: Explains and illustrates the differences to be observed in examining thick and thin blood films with particular reference to trophozoites, gametocytes, and gametocytes and to Plasmodium falciparum, vivax, and malariae.

Identification of malaria parasites in thin blood films (Filmstrip)

U. S. Public Health Service, 1947.

77 fr., color, 35 mm. and disc: 2 a, 16 in., 331 rpm, 17 min.
 Order no. 5-077.
 Summary: Describes and illustrates the four stages of parasite development—trophozoites, gametocytes, and gametocytes and to Plasmodium falciparum, vivax, and malariae.

Identification of some common fleas (Filmstrip)

U. S. Public Health Service, 1952.

39 fr., color, 35 mm. and disc: 1 a, 16 in., 331 rpm, 12 min.
 Order no. 5-078.
 Summary: Explains important structures of the head, thorax, and abdomen and in identifying fleas: family characteristics of some species of fleas (Xenopsylla, Pulex, Ceratophyllus, and Hirsuti- chephalus); and species characteristics of other fleas of public health importance.

Identification of some common stocking lice (Filmstrip)

U. S. Public Health Service, 1945.

69 fr., color, 35 mm. and disc: 1 a, 16 in., 331 rpm, 9 min. (Tyrphus control series)
 Order no. 5-079.
 Summary: Explains the morphological characteristics used to identify six genera and eight species of the more common lice in the United States. Primarily for identification.

Identification of some mosquitoes of public health importance (Filmstrip)

U. S. Public Health Service, 1952.

56 fr., color, 35 mm. and disc: 1 a, 16 in., 331 rpm, 14 min.
 Order no. 5-080.
 Summary: Labeled also in 42 double frames (order no. 5-080) without accompanying disc.
 Summary: Drawings, with captions, of various species of mosquitoes. The recording explains the system of distinguishing one species from another and of identifying each.

Identification of U. S. genera of adult female mosquitoes (Filmstrip)

U. S. Public Health Service, 1948.

92 fr., color, 35 mm. and disc: 2 a, 16 in., 331 rpm, 15 min.
 Order no. 5-081.
 Summary: Explains the taxonomy of mosquitoes, morphological characters used in identifying mosquito genera, and characteristics of the different genera.
 Another issue: b.w.

Identification of U. S. genera of adult ticks (Filmstrip)

U. S. Public Health Service, 1950.

51 fr., color, 35 mm. and disc: 1 a, 16 in., 331 rpm, 14 min.
 Order no. 5-082.
 Summary: Explains the morphological characters used in identifying 11 genera of adult ticks occurring in the United States.

Identification of U. S. genera of mosquito larvae (Filmstrip)

U. S. Public Health Service, 1947.

103 fr., color, 35 mm. and disc: 2 a, 16 in., 331 rpm, 15 min.
 Order no. 5-083.
 Summary: Shows the essential larval characters used in determining genera of the United States mosquito larvae, and explains the basic nomenclature used in larval taxonomy.

Identification of U. S. species of Anopheles larvae (Filmstrip)

U. S. Public Health Service, 1950.

78 fr., color, 35 mm. and disc: 2 a, 16 in., 331 rpm, 16 min.
 Order no. 5-084.
 Summary: Explains methods of distinguishing Anopheles larvae from larvae of other mosquitoes and aquatic insects; and gives a schematic key to differentiate the important characteristics of each species.

Insect pests and disease (Filmstrip)

Young America Films, 1952.

43 fr., color, 35 mm. (Good health series)
 New ed.
 With teacher's guide.
 Summary: Discusses five insect pests that endanger our health, and tells how to eradicate them. For middle grades.

The life cycle of a malaria parasite (Filmstrip)

U. S. Public Health Service, 1948.

96 fr., color, 35 mm. and disc: 1 a, 16 in., 331 rpm, 13 min.
 Order no. 5-085.
 Summary: Explains through drawings the various stages in the life cycle of a malaria parasite in man, including zygomatic position, terminology, and the more obvious clinical effects of malaria.

Spread and prevention of trichinosis (Filmstrip)

U. S. Public Health Service, 1948.

67 fr., color, 35 mm. and disc: 1 a, 16 in., 331 rpm, 12 min.
 Order no. 5-090.
 With film guide.
 Summary: A short version for non-professional audiences, released under the title Worms in your muscles also available.
 Summary: Discusses the life cycle of Trichinella spiralis; prevalence and spread of trichinosis; symptoms of the disease; control measures; and consumer responsibilities. For scientific audiences.

Worms in your muscles (Filmstrip)

U. S. Department of Health, Education and Welfare, U. S. Public Health Service, 1948.

84, 10 min., b.w., 35 mm.
 Summary: Danger, cause and cycle of trichinosis. Preventive measures.

MEDICINE—Physiology

Body defenses against invasion by disease (Filmstrip)

Popular Science Pub. Co., 1952.

43 fr., color, 35 mm. (Fighting disease)
 With teacher's guide.
 Summary: Explains how skin, nasal hairs, mucous membranes, cilia, and secretions act as external body defenses against disease; shows that blood contains minerals, digested nutrients, red and white cells, platelets, and antibodies which form an internal defense against invasion by disease; illustrates how the body develops immunity to disease.

The bones and muscles (Filmstrip)

Young America Films, 1951.

44 fr., color, 35 mm. (Introductory physiology series)
 With teacher's guide.
 Summary: Explains the structure, function, and proper care of the bones and muscles. For middle grades and junior-senior high school.

The circulatory system (Filmstrip)

Young America Films, 1951.

56 fr., color, 35 mm. (Introductory physiology series)
 With teacher's guide.
 Summary: Explains the structure, function, and proper care of the circulatory system. For middle grades and junior-senior high school.

Color of man (Filmstrip)

University of California, 1955.

50 fr., color, 35 mm.
 56 fr., color, 35 mm. (Fighting disease)

The digestive system (Filmstrip)

Young America Films, 1951.

41 fr., color, 35 mm. (Introductory physiology series)
 With teacher's guide.
 Summary: Explains the structure, function, and proper care of the digestive system. For middle grades and junior-senior high school.

The ears (Filmstrip)

Young America Films, 1951.

44 fr., color, 35 mm. (Introductory physiology series)
 With teacher's guide.
 Summary: Explains the structure, function, and proper care of the ears. For middle grades and junior-senior high school.

MEDICINE—Physiology

The eyes (Filmstrip)

Young America Films, 1951.

45 fr., color, 35 mm. (Introductory physiology series)
 With teacher's guide.
 Summary: Explains the structure, function, and proper care of the eyes. For middle grades and junior-senior high school.

The germ invaders (Filmstrip)

Popular Science Pub. Co., 1952.

46 fr., color, 35 mm. (Fighting disease)
 With teacher's guide.
 Summary: Describes bacteria, protozoans, rickettsias, fungi, viruses, and worms; shows the common infections and diseases which result from contact with these micro-organisms.

Helping the body defenses against disease (Filmstrip)

Popular Science Pub. Co., 1952.

46 fr., color, 35 mm. (Fighting disease)
 With teacher's guide.
 Summary: Explains that immunity to certain diseases results from inoculations with vaccines, toxoids, and antitoxins which cause the body to produce antibodies to fight disease. Includes a historical sketch showing how the research of Jenner, Pasteur, and Koch has helped to reduce the incidence of germ disease.

How chemicals and anti-biotics fight disease (Filmstrip)

Popular Science Pub. Co., 1952.

48 fr., color, 35 mm. (Fighting disease)
 With teacher's guide.
 Summary: Explains how sulfa drugs and antibiotics such as penicillin, streptomycin, aureomycin, and terramycin are used in the treatment of germ disease. Discusses the results of research in the antibiotic field conducted by Fleming, Waksman, Ziegler, and Hart- halter.

How the heart works (Filmstrip)

Popular Science Pub. Co., Audio-Visual Division, 1951.

51 fr., color, 35 mm.
 With teacher's guide.
 Summary: A pictorial explanation of the function and operation of the heart. Describes the veins, arteries, and capillaries; illustrates the oxygenation process; traces the blood stream through the body; demonstrates the use of the "iron heart." For elementary, junior and senior high school grades.

Invasion by disease (Filmstrip)

Popular Science Pub. Co., 1952.

56 fr., color, 35 mm. (Fighting disease)
 With teacher's guide.
 Summary: Describes how diseases are spread by air, water, food, insects, and direct contact; explains what can be done to curb the spread of disease.

The nervous system (Filmstrip)

Young America Films, 1951.

45 fr., color, 35 mm. (Introductory physiology series)
 With teacher's guide.
 Summary: Explains the structure, function, and proper care of the nervous system. For middle grades and junior-senior high school.

MEDICINE—Physiology

The respiratory system (Filmstrip) Young America Films, 1951.

40 fr., color, 35 mm. (Introductory physiology series)

With teacher's guide.

Summary: Explains the structure, function, and proper care of the respiratory system. For middle grades and junior-senior high school.

The skin, hair, and nails (Filmstrip) Young America Films, 1951.

37 fr., color, 35 mm. (Introductory physiology series)

With teacher's guide.

Summary: Explains the structure, function, and proper care of the skin, the hair, and the nails. For middle grades and junior-senior high school.

The teeth (Filmstrip) Young America Films, 1951.

42 fr., color, 35 mm. (Introductory physiology series)

With teacher's guide.

Summary: Explains the structure, function, and proper care of the teeth. For middle grades and junior-senior high school.

MEDICINE—Preventive Medicine

TB—What it is and what to do about it (Filmstrip)

National Tuberculosis Association, 1949.

20 fr., color, 35 mm.

Summary: Essential facts about tuberculosis control.

MEDICINE—Psychiatry

The difficult ones. Part 1: Psychiatric problems met by the contact representative (Filmstrip) U. S. Veterans Administration, 1946.

45 fr., b&w, 35 mm.

Similar version for V. A. hospital attendants released in 1947 under the title *Your job and the psychiatric patient. Part 1: The psychiatric patient.*

Summary: Reviews through the use of cartoons and captions some of the psychiatric behavior patterns exhibited by veterans in interviews with the V. A. contact representative.

The difficult ones. Part 2: Their effect on the contact representative (Filmstrip) U. S. Veterans Administration, 1946.

30 fr., b&w, 35 mm.

Similar version for V. A. hospital attendants released in 1947 under the title *Your job and the psychiatric patient. Part 2: How the patient may affect the attendant.*

Summary: Explains through the use of cartoons and captions some of the reactions of V. A. contact representatives to neuropsychiatric veterans whom they are interviewing, and urges such representatives to be objective, factual, and helpful.

The difficult ones. Part 3: Getting help for the veterans with emotional problems (Filmstrip) U. S. Veterans Administration, 1946.

41 fr., b&w, 35 mm.

Similar version for V. A. hospital attendants released in 1947 under the title *Your job and the psychiatric patient. Part 3: The attendant helps the patient.*

Summary: Suggests through the use of cartoons and captions ways in which V. A. contact representatives should conduct interviews with veterans having emotional problems.

Keep your head (Filmstrip) Zurich-American Insurance Companies, 1947.

Sound, 15 min., b&w, 35 mm.

Summary: Loss of self-control analyzed; causes (un-reasoned anger, baseless fear), how they may be removed or lessened.

Weathering the storms (Filmstrip) Zurich-American Insurance Companies, 1946.

Sound, b&w, 35 mm.

Summary: Psychoneurosis defined and described. Misconceptions dispelled. Symptoms. Causes. Treatment. How to avoid psychoneurosis by keeping physically fit, emotionally controlled, good humored and self-confident.

Your job and the psychiatric patient. Part 1: The psychiatric patient (Filmstrip) U. S. Veterans Administration, 1947.

50 fr., b&w, 35 mm.

Similar version for V. A. contact representatives released in 1946 with title *The difficult ones. Part 1: Psychiatric problems met by the contact representative.*

Summary: Reviews through the use of cartoons and captions some of the more common psychiatric behavior patterns in veterans. Directed toward V. A. hospital attendants who deal with neuropsychiatric patients.

Your job and the psychiatric patient. Part 2: How the patient may affect the attendant (Filmstrip) U. S. Veterans Administration, 1947.

50 fr., b&w, 35 mm.

Similar version for V. A. contact representatives released in 1946 with title *The difficult ones. Part 2: Their effect upon the contact representative.*

Summary: Explains through the use of cartoons and captions some of the reactions of V. A. hospital attendants to neurotic and psychotic behavior of patients, and urges attendants to regard such behavior as symptoms of illness.

Your job and the psychiatric patient. Part 3: The attendant helps the patient (Filmstrip) U. S. Veterans Administration, 1947.

45 fr., b&w, 35 mm.

Similar version for V. A. contact representatives released in 1946 with title *The difficult ones. Part 3: Getting help for the veterans with emotional problems.*

Summary: Suggests through the use of cartoons and captions ways in which V. A. hospital attendants should conduct themselves in working with neuropsychiatric patients.

MEDICINE—Psychology

Age of turmoil (Filmstrip) McGraw-Hill Book Co., 1953.

35 fr., b&w, 35 mm. (Adolescent development series)

Based on the motion picture of the same title; correlated with the book *Adolescent development*, by Elizabeth B. Hurlock. Summary: Live action photographs are used in presenting questions dealing with the emotional turmoil of early adolescence. Illustrates such characteristics as pining, inhibition, and negative criticism of school, unrealistic day-dreaming, and hours spent in seemingly useless activity. Most of the scenes are set in the home.

David and his family (Filmstrip) Key Productions. Released by Young America Films, 1949.

30 fr., b&w, 35 mm.

With teacher's guide. Summary: Presents a typical day in the life of a small boy, showing how he adjusts himself to the situation when a baby brother arrives at his home. Follows him in his activities at school and at home. For kindergarten-primary grades.

David's bad day (Filmstrip) Key Productions. Released by Young America Films, 1949.

30 fr., b&w, 35 mm.

With teacher's guide. Summary: A four-year-old boy has difficulty in adjusting himself to the arrival of a baby brother. Shows the emotional culture at the school and at home, traces their cause to his frustration at home, and tells how his parents realize his difficulty and help him to adjust to the new situation. For parent-teacher and college groups.

Emotional health (Filmstrip) McGraw-Hill Book Co., 1948.

25 fr., b&w, 35 mm. (Health education series, no. 5)

Supplements motion picture of the same title. Correlated with the book *Healthful living*, by Harold S. Dool. Summary: Shows that emotional upsets are common among people of college age, explains that if a disturbance of this kind is prolonged, a need for professional control and care is indicated, and demonstrates the basic techniques of psychiatric treatment. For college and adult groups.

Heredity and pre-natal development (Filmstrip) McGraw-Hill Book Co., 1950. Produced by Crawley Films, Ottawa.

50 fr., b&w, 35 mm. (Child development series, no. 2)

Supplements motion picture of the same title. Correlated with the book *Child development*, by Elizabeth B. Hurlock.

Summary: Describes the growth, subdivision, and union of male and female sex cells; fertilization of the ovum by sperm cell; and the pre-natal development of an offspring. Considers the development of the basic physiological actions of breathing, eating, and elimination in a new-born child; and stresses the close connection between physical and emotional sensitivity in very young children.

Importance of goals (Filmstrip) McGraw-Hill Book Co., 1951. Produced by Audio Productions.

25 fr., b&w, 35 mm. (Educational psychology series, no. 2)

Supplements motion picture of the same title. Correlated with the book *Psychology in education*, by Herbert Sorenson. Summary: Explores the principle that all education is essentially a process of attaining basic, meaningful goals. Shows how having something to work toward helps to create eager and interested students.

Individual differences (Filmstrip) McGraw-Hill Book Co., 1951. Produced by Audio Productions.

40 fr., b&w, 35 mm. (Educational psychology series, no. 3)

Supplements motion picture of the same title. Correlated with the book *Psychology in education*, by Herbert Sorenson. Summary: Explains that individual differences must be recognized, and emphasizes the importance of adapting education to meet the needs of the pupils.

Learned behavior (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Behavior of animals and plants series)

Eastman color. With teacher's manual. Summary: Discusses learned and learned behavior in animals and in people, and explains the importance of learned behavior in our lives.

MEDICINE—Psychology

Meaning of adolescence (Filmstrip) McGraw-Hill Book Co., 1953. Made by Crawley Films.

54 fr., b&w, 35 mm. (Adolescent development series)

Based on the motion picture of the same title; correlated with the book *Adolescent development*, by Elizabeth B. Hurlock. Summary: Live action photographs are used in presenting questions dealing with the adjustments of a teenage boy and girl—physical maturity, social living, getting along with the opposite sex, settlement of religious doubts, and the establishment of a moral code.

Meeting the needs of adolescents (Filmstrip) McGraw-Hill Book Co., 1953. Made by Crawley Films.

54 fr., b&w, 35 mm. (Adolescent development series)

Based on the motion picture of the same title; correlated with the book *Adolescent development*, by Elizabeth B. Hurlock. Summary: Live action photographs are used in presenting questions dealing with the needs of a 17-year-old girl and a 16-year-old boy to prepare children for well-adjusted adult lives. Shows how their basic physical needs are met, how their mental development is stimulated and directed, how they are guided in their spiritual growth, and how parents can develop the social consciousness in their children which will make them good companions in later life.

Motivating the class (Filmstrip) McGraw-Hill Book Co., 1951. Produced by Audio Productions.

41 fr., b&w, 35 mm. (Educational psychology series, no. 1)

Supplements motion picture of the same title. Correlated with the book *Psychology in education*, by Herbert Sorenson. Summary: Demonstrates the value of the teacher technique that sets goals which each child can recognize as attainable.

Physical aspects of puberty (Filmstrip) McGraw-Hill Book Co., 1953. Made by Crawley Films.

54 fr., b&w, 35 mm. (Adolescent development series)

Based on the motion picture of the same title; correlated with the book *Adolescent development*, by Elizabeth B. Hurlock. Summary: Live action photographs and drawings are used in presenting questions dealing with the physical aspects of puberty in boys and girls. Describes the importance of the endocrine glands in puberty, the gonadotropic hormone, the development of male and female reproductive organs, secondary sex characteristics, and other physical changes. Shows how normal variations in development can have social repercussions, and points out that behavior problems that seem minimal are often based on the rate of physical growth.

Principles of development (Filmstrip) McGraw-Hill Book Co., 1950. Produced by Crawley Films, Ottawa.

40 fr., b&w, 35 mm. (Child development series, no. 1)

Supplements motion picture of the same title. Correlated with the book *Child development*, by Elizabeth B. Hurlock. Summary: Outlines the fundamentals and basic principles of development, and considers the variables which make each child different from every other one.

Problem of pupil adjustment. Part 1: The drop-out (Filmstrip) McGraw-Hill Book Co., 1951. Produced by Audio Productions.

40 fr., b&w, 35 mm. (Educational psychology series, no. 4)

Supplements motion picture of the same title. Correlated with the book *Psychology in education*, by Herbert Sorenson. Summary: A case study of a high school student who drops out of school because of the delinquency and immaturity and because his natural interests are not recognized. Explains the importance of a life adjustment program in the school, with class subjects related to the interests of the students.

MEDICINE—Psychology

Problem of pupil adjustment. Part 2: The stay-in (*Filmstrip*) McGraw-Hill Book Co., 1951. Produced by Audio Productions.

49 fr., b&w, 35 mm. (Educational psychology series, no. 5)
Supplements motion picture of the same title.
Correlated with the book *Psychology in Education*, by Herbert Sorenson.
Summary: A study of a school that reduced to a small percentage the number of students who drop out of school. Shows how individual pupil needs are recognized in a school program that stresses learning in terms of adjustment to actual everyday living.

Social development (*Filmstrip*) McGraw-Hill Book Co., 1950. Produced by Crawley Films, Ottawa.

30 fr., b&w, 35 mm. (Child development series, no. 5)
Supplements motion picture of the same title.
Correlated with the book *Child Development*, by Elizabeth B. Hurlock.
Summary: Presents an analysis of social behavior at different ages as the child develops. Illustrates the changes in behavior patterns which culminate in their marriage. Shows how they achieved a growing awareness of sex through parental training in childhood, and healthy, normal experiences during adolescence. Points out that their backgrounds make possible a healthy adult relationship.

Social-sex attitudes in adolescence (*Filmstrip*) McGraw-Hill Book Co., 1950. Made by Crawley Films.

35 fr., b&w, 35 mm. (Adolescent development series)
Based on the motion picture of the same title; correlated with the book *Adolescent Development*, by Elizabeth B. Hurlock.
Summary: Live action photographs are used in presenting questions dealing with social-sex attitudes and relationships throughout adolescence. Depicts a boy and girl during their adolescent experience, which culminates in their marriage. Shows how they achieved a growing awareness of sex through parental training in childhood, and healthy, normal experiences during adolescence. Points out that their backgrounds make possible a healthy adult relationship.

MEDICINE—Public Health

School health today (*Filmstrip*) National Tuberculosis Association, 1951.

50 fr., color, 35 mm.
Summary: Depicts an effective school health program to serve as a basis for discussing the improvement of local school health programs.

MEDICINE—Rehabilitation

How big a handicap? (*Filmstrip*) Public Affairs Committee, 1948.

40 fr., b&w, 35 mm. and disc: 12 in., 78 rpm, 15 min.
Prepared in cooperation with the Ohio and Tennessee Societies for Crippled Children.
Based on the pamphlet *Epilepsy—the ghost is out of the closet*, by Herbert Vahren.
Summary: Discusses the problems of epilepsy and what can be done for persons with this handicap.

Physical therapy in the treatment of amputations (*Filmstrip*) U. S. War Dept., 1944.

75 fr., b&w, 35 mm.
Order no. FS 8-83.
Summary: Explains procedures to be used in massage, pressure exercise, static and active restorative exercise, bandaging of major amputations, and the care of bandages.

Teaching crutch walking (*Filmstrip*) General Electric Company, 1945.

MEDICINE—Sanitation

Aquatic plants associated with "Anopheles" breeding areas (*Filmstrip*) U. S. Department of Health, Education and Welfare, U. S. Public Health Service, 1949.

149 double fr., color, 35 mm.
Summary: Illustrations of aquatic plants occurring in Anopheles breeding areas.

Biology of domestic flies (*Filmstrip*) U. S. Public Health Service, 1951.

61 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 9 min. (Community fly control series)
Order no. F-123.
With film guide.
Motion picture of the same title, covering the same subject matter, also available.
Summary: Explains the nature, construction, and use of the fly grill for measuring fly density.

Clothing in (*Filmstrip*) U. S. Public Health Service, 1948.

69 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 12 min.
Order no. 5-065.
Summary: Explains through cartoons and drawings the steps a community can take toward eliminating mosquitoes, breeding places of mosquitoes, and malaria.

Constructing a farm pond (*Filmstrip*) U. S. Public Health Service in cooperation with Alabama Departments of Conservation and Health, Alabama Polytechnic Institute, and U. S. Soil Conservation Service, 1949.

70 fr., ed., b&w, 35 mm. and disc: 1 a., 16 in., 333 rpm, 10 min.
Order no. 5-139.
Summary: Demonstrates the construction of a farm pond in accordance with principles explained by the county agent and county sanitation officer.

Constructing a sanitary pit privy (*Filmstrip*) U. S. Department of Health, Education and Welfare, U. S. Public Health Service, 1949.

70 fr., ed., b&w, 35 mm.
Summary: Demonstrates the public health values of the sanitary pit privy, the principles of sanitation involved in its construction, and construction procedures.

Equipment for hand spraying of DDT (*Filmstrip*) U. S. Public Health Service, 1947.

67 fr., b&w, 35 mm. and disc: 1 a., 16 in., 333 rpm, 13 min.
Order no. 5-084.
Revision of the 1946 filmstrip with the title *Hand spraying of DDT*.
Summary: Shows several types of hand sprayers and explains their parts, including the use of an air compressor.

Evaluating DDT dusting in murine typhus control (*Filmstrip*) U. S. Public Health Service, 1948.

201 fr., b&w, 35 mm. and disc: 1 a., 16 in., 333 rpm, 13 min.
Order no. 5-081.
Summary: Explains methods of collecting rodent ectoparasitism, taking rodent blood samples, and determining the ectoparasite index as an evaluation of the effectiveness of DDT dusting.

Filtration plants (*Filmstrip*) U. S. Department of Health, Education and Welfare, U. S. Public Health Service, 1953.

84, 8 min., color, 35 mm. (Small Water Treatment Plant Series)
Summary: Principles of operation of small water treatment plants. Sifts, bacteria, algae, protozoa removed at small water treatment plant consisting of mixing basin, settling basin, gravity sand filter, chlorinator, finished water reservoir.

Fly density surveys by the grill method (*Filmstrip*) U. S. Public Health Service, 1949.

28 fr., color, 35 mm. (Community fly control series)
Order no. F-123.
With film guide.
Motion picture of the same title, covering the same subject matter, also available.
Summary: Explains the nature, construction, and use of the fly grill for measuring fly density.

General inspection and control activities at the area level (*Filmstrip*) U. S. Public Health Service, 1945.

66 fr., b&w, 35 mm.
Order no. 5-011.
Summary: Presents general information about the malaria mosquito, its life cycle and habits; examples of malaria control problems and measures; and methods of evaluating the results of control operations.

Germs take pot luck (*Filmstrip*) U. S. Public Health Service, 1945.

75 fr., b&w, 35 mm. and disc: 1 a., 16 in., 333 rpm, 15 min. (Our health in your hands series)
Summary: Shows how germs cause disease; how diseases are spread, particularly in restaurants; and what restaurant workers should do to follow accepted sanitation practices. For food handlers and sanitarians.

Good water to drink, pt. A: Exploring water sources (*Filmstrip*) Charles Scribner's Sons, 1951.

21 fr., color, 35 mm.
Contains color.
With teaching guide.
Correlated with Book 7 of *The wonderworld of science*, by Warren Kutz and others.
Summary: Explains that the water supply is not keeping pace with the growing population. Discusses such sources of water as wells, lakes, rivers, and waterworks; stresses the important role of humus as the primary factor in the storage of water in a watershed; illustrates the operation of an artesian well.

Good water to drink, pt. B: Purifying drinking water (*Filmstrip*) Charles Scribner's Sons, 1951.

29 fr., color, 35 mm.
Contains color.
With teaching guide.
Correlated with Book 7 of *The wonderworld of science*, by Warren Kutz and others.
Summary: Discusses the processes of sedimentation, filtration, coagulation, chlorination, and aeration, as methods of water purification. Presents a simple experiment with pond water to demonstrate the method of purification by chlorination and shows the use of chlorine from gaseous liquid and solid sources.

Hand spraying of DDT (*Filmstrip*) U. S. Public Health Service, 1946.

72 fr., b&w, 35 mm. and disc: 1 a., 16 in., 333 rpm, 15 min.
Order no. 5-015.
Supplementary filmstrip with the title *Quit: Hand spraying of DDT*, also available.
Summary: Demonstrates the use of DDT residual spray in the home, methods of hand spraying, and the use and care of equipment.

MEDICINE—Sanitation

High-temperature short-time pasteurization: Equipment and controls (*Filmstrip*) U. S. Public Health Service, 1951.

66 fr., b&w, 35 mm. and disc: 1 a., 16 in., 333 rpm, 12 min.
Order no. F-10-4.
Supplements the motion picture released under the title *High-temperature short-time pasteurization*.
Summary: Shows the essential components of a high-temperature short-time pasteurization installation, its structure, flow plan, and operating principles.

In hot water (*Filmstrip*) U. S. Public Health Service, 1945.

73 fr., b&w, 35 mm. and disc: 1 a., 16 in., 333 rpm, 12 min. (Our health in your hands series)
Summary: Shows how to wash, handle, and store dishes hygienically. Covers both hand dishwashing and the operation of dishwashing machines. For food handlers and sanitarians.

In self defense (*Filmstrip*) U. S. Public Health Service, 1946.

68 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 14 min.
Order no. 5-016.
Summary: Cartoon characters explain and portray defense measures to be used against the *Anopheles* mosquito, "Ano-the-awful."

Moquito inspection and control (*Filmstrip*) U. S. Public Health Service, 1945.

83 fr., color, 35 mm.
Order no. 5-078.
Summary: Consists of 55 photographs illustrating various aspects of mosquito inspection and control such as mosquito breeding areas, use of sprayers, drainage ditches, hydraulic dredging, etc. So captioned.

Moquito problems in irrigated areas (*Filmstrip*) U. S. Public Health Service, 1953.

75 fr., b&w, 35 mm. and disc: 1 a., 16 in., 333 rpm, 10 min.
Order no. F-144.
Summary: Explains the mosquito problems attendant to irrigation projects and how an irrigation system should be designed and installed in order to provide adequate drainage so that it does not become a mosquito breeding area.

Municipal sewage treatment plants series (*Filmstrip*) U. S. Department of Health, Education and Welfare, U. S. Public Health Service, 1950.

84, 4 filmstrips, b&w, 35 mm.
Contains: 1. Activated Sludge Plant with Vacuum Filtration and Refiltration, 75 fr.—3. Chemical Precipitation Plants with Two-stage Digestion, 63 fr.—3. Primary Treatment Plant, 47 fr.—4. Trickling Filter Plant, 94 fr.

Permanent ditch linings (*Filmstrip*) U. S. Public Health Service, 1945.

107 fr., color, 35 mm. and disc: 1 a., 16 in., 333 rpm, 15 min.
Order no. 5-021.
Summary: Demonstrates the techniques of constructing monolithic concrete linings in ditches in percent erosion.

MEDICINE—Sanitation

Power spraying with DDT (*Filmstrip*) U. S. Public Health Service, 1946.
 66 fr., color, 35 mm. and disc: 1 s., 16 in., 333 rpm, 14 min.

Order no. 5-0021.
 Supplementary *Filmstrip* with the title *Quia: Power spraying with DDT, also available.*
 Summary: Explains how DDT residual spray kills insects, and demonstrates a power sprayer, its parts, uses, and maintenance.

Rat eradication measures on ratproofing projects (*Filmstrip*) U. S. Public Health Service, 1947.
 76 fr., b&w, 35 mm. and disc: 1 s., 16 in., 333 rpm, 12 min.

Order no. 5-008.
 Summary: Explains the steps to be taken in the eradication of rats from a retrofitted building, including the use of various poisons and traps, and the need for periodic inspection.

Ratproofing of existing buildings (*Filmstrip*) U. S. Public Health Service, 1947.
 90 fr., b&w, 35 mm. and disc: 1 s., 16 in., 333 rpm, 14 min.

Order no. 5-007.
 Summary: Briefly explains the habitat of rats and the need for ratproofing buildings; and demonstrates the methods by which existing buildings can be ratproofed and maintained in a rat-free condition.

Recognition of domestic rodent signs (*Filmstrip*) U. S. Public Health Service, 1952.
 38 fr., color, 35 mm. and disc: 1 s., 16 in., 333 rpm, 7 min.

Order no. 5-111.
 Summary: Explains where to look for rodent signs and how to identify the various species of rodents by the size and shape of their droppings.

Recognition of rat signs for DDT dusting (*Filmstrip*) U. S. Public Health Service, 1946.
 70 fr., b&w, 35 mm. and disc: 1 s., 16 in., 333 rpm, 11 min.

Order no. 5-007.
 Summary: Mentions the increase in typhus fever in the United States and explains its mode of transmission through rats, via fleas, to humans. Explains methods of eliminating rats and rat ectoparasites, conditions favorable to rat infestations, recognition of rat signs, and application of DDT to rat runways.

Sanitary design in drinking fountains (*Filmstrip*) U. S. Public Health Service, 1947.
 32 fr., b&w, 35 mm.

Order no. 5-003.
 Summary: Explains how improperly designed drinking fountains can transmit disease, and describes the characteristics of a properly designed fountain.

Service with a smile (*Filmstrip*) U. S. Public Health Service, 1945.
 63 fr., b&w, 35 mm. and disc: 1 s., 16 in., 333 rpm, 15 min. (Our health in your hands series)

Summary: Shows what restaurant workers should do to keep well, how they should dress, and how they should serve food to customers. For food handlers and waitresses.

Spray-time (*Filmstrip*) U. S. Public Health Service, 1945.
 83 fr., b&w, 35 mm. and disc: 1 s., 16 in., 333 rpm, 13 min.

Order no. 5-028.
 Summary: Advocates residual spraying with DDT as a malaria control measure, and shows how such spraying should be done.

Su no convidados huésped (*Filmstrip*) U. S. Public Health Service, 1945.
 94 fr., b&w, 35 mm. and disc: 1 s., 16 in., 333 rpm, 11 min.

Order no. 5-0015.
 Spanish language version of the *Filmstrip*: Your uninvited guests. Summary: Explains that the *Aedes aegypti* mosquito is the carrier of dengue and yellow fever; outlines the life cycle of this mosquito; and shows methods of locating and eliminating mosquito breeding places about the home.

Swimming pool sanitation (*Filmstrip*) U. S. Public Health Service, 1953.
 66 fr., color, 35 mm. and disc: 1 s., 16 in., 333 rpm, 8 min.

Order no. F 133.
 Summary: Shows some of the physical characteristics and operating procedures basic to swimming pool sanitation, including also considerations, recirculation of water, filter methods, cleaning rooms, preparations for breakdowns, and maintenance of both houses.

Ten-eighths, a rat poison for professional use (*Filmstrip*) U. S. Public Health Service, 1950.
 73 fr., b&w, 35 mm. and disc: 1 s., 16 in., 333 rpm, 15 min.

Order no. 5-124.
 Summary: Explains the importance of 1080 (sodium fluoroacetate) as a rat poison; and its properties, preparation, and use. Restricted to public health and pest control personnel.

The use of warfarin in rodent control (*Filmstrip*) U. S. Public Health Service, 1952.
 84 fr., color, 35 mm. and disc: 1 s., 16 in., 333 rpm, 6 min.

Order no. F 14.
 Summary: Explains the characteristics of the rodenticide, warfarin, its effectiveness, and methods of use.

Water supply and purification (*Filmstrip*) U. S. War Dept., 1945.
 64 fr., b&w, 35 mm.

Order no. FS 9-62.
 Summary: Provides illustrative material for use in the instruction of proper methods of field water supply and purification. Shows water supply sources, procurement, treatability and requirements, methods of storage, purification, and distribution.

Your uninvited guests (*Filmstrip*) U. S. Public Health Service, 1945.
 94 fr., b&w, 35 mm. and disc: 1 s., 16 in., 333 rpm, 11 min.

Order no. 5-0011.
 Summary: Explains that the *Aedes aegypti* mosquito is the carrier of dengue and yellow fever; outlines the life cycle of this mosquito, and shows methods of locating and eliminating mosquito breeding places about the home.

MEDICINE—Surgery and Radiology

Clearing of air passage (*Filmstrip*) U. S. Department of Defense. Armed Forces Institute of Pathology, 1952.
 10 fr., b&w, 35 mm. (Face and Jaw Wounds Series)

Order no. FS 8-33.
 Summary: Methods and procedures in clearance and maintenance of air passages blocked as result of fractures.

Foreign body localization (Roentgenoscopic) Part I: Practical application (*Filmstrip*) U. S. War Dept., 1944.
 75 fr., b&w, 35 mm.

Order no. FS 8-01.
 Summary: Explains steps in the localization of foreign bodies, including first phase roentgenoscopic; second phase, using X-ray marker; and assembly and application of roentgen device. For medical personnel.

Joseph Lister (*Filmstrip*) Eye Gate House, 1951.
 29 fr., color, 35 mm. (Men who helped us find out)

With teacher's manual.
 Summary: Presents the life of Joseph Lister, and explains his contributions to surgery.

MEDICINE—Tropical Medicine

Chills and fever: Why? (*Filmstrip*) U. S. Public Health Service, 1947.
 53 fr., color, 35 mm. and disc: 1 s., 16 in., 333 rpm, 13 min.

Order no. 5-078.
 Summary: Explains the symptoms of virus malaria; the cause—malaria parasites in the blood stream; its means of infection; life cycle of the parasite; and the chain of malaria transmission through the mosquito.

Criminal at large (*Filmstrip*) U. S. Public Health Service, 1945.
 60 fr., color, 35 mm. and disc: 1 s., 16 in., 333 rpm, 13 min. (Malaria control series)

Order no. 5-0011.
 With film guide.
 Motion picture of the same title, with identical pictures and narration, also available.
 Summary: A 300-episode, designed to write a story on "the most dangerous criminal," places his editor by reporting, with the aid of an entomologist, the life cycle and crime trail of *Anopheles quadrimaculatus*. Consists of still pictures and drawings.

DDT as a mosquito larvicide (*Filmstrip*) U. S. Public Health Service, 1947.
 81 fr., b&w, 35 mm. and disc: 2 s., 16 in., 333 rpm, 18 min. (Malaria control series)

Order no. 5-0011.
 With film guide.
 Narration and supplements the long version of the motion picture with the same title (order no. 5-0011).
 Summary: Shows hand spraying of DDT in mosquito larvicide, and shows methods of locating and eliminating mosquito breeding places about the home.

MEDICINE—Tropical Medicine

Diagnosis of enterobiasis (*Filmstrip*) U. S. Public Health Service, 1950.
 40 fr., b&w, 35 mm.

Order no. 5-164.
 Summary: Describes the features of the life cycle of the pinworm, its migration habits, and the areas of its activity; mentions various methods of diagnosing enterobiasis through recovery of eggs and explains the disadvantages of these methods; and describes the cellulose tape method and its advantages.

Falciparum malaria (*Filmstrip*) U. S. Public Health Service, 1945.
 71 fr., color, 35 mm. and disc: 2 s., 16 in., 333 rpm, 17 min.

Order no. 5-040.
 Summary: Explains the distribution, significance, clinical manifestations, diagnosis and treatment, and prevention of malaria caused by *Plasmodium falciparum*.

Filarinosis (*Filmstrip*) U. S. Public Health Service, 1947.
 35 fr., color, 35 mm. and disc: 2 s., 16 in., 333 rpm, 21 min.

Order no. 5-050.
 Summary: Explains the necessity for further etiologic study of Thomsen's filariasis of the lymphatic system; the biology of the infection; the life cycle of *Wuchereria bancrofti* in human and mosquito hosts; and the diagnosis, treatment, and prevention of the disease.

Malaria (*Filmstrip*) U. S. Public Health Service, 1945.
 101 fr., b&w, 35 mm. and disc: 1 s., 16 in., 333 rpm, 13 min. (Malaria control series)

Order no. 5-048.
 With film guide.
 Motion picture of the same title, with identical pictures and narration, also available.
 Summary: Describes *Anopheles quadrimaculatus* and its habits; transmission, diagnosis, and treatment of malaria; economic and related results of malaria; and individual and community preventive measures. Consists of still pictures.

Malaria: how to stop it (*Filmstrip*) U. S. Public Health Service, 1947.
 27 fr., b&w, 35 mm.

Order no. 5-008.
 Summary: Portrays general methods of controlling anopheline mosquitoes in order to prevent malaria.

Schistosomiasis (*Filmstrip*) U. S. Public Health Service, 1945.
 80 fr., color, 35 mm. and disc: 1 s., 16 in., 333 rpm, 12 min.

Order no. 5-008.
 Another version, with same title (order no. 5-0001) designed for biologists and parasitologists, also available.
 Summary: Explains the various species of blood flukes, their geographic distribution, identification, life cycle, and hosts; and presents the medical aspects of schistosomiasis as it appears in man. For physicians and health officers.

Schistosomiasis (*Filmstrip*) U. S. Public Health Service, 1945.
 102 fr., color, 35 mm. and disc: 2 s., 16 in., 333 rpm, 10 min.

Order no. 5-0001.
 Another version, with same title (order no. 5-0001) designed for physicians and health officers, also available.
 Summary: Presents the biological facts relative to schistosomiasis and the life cycles and characteristics of three species of blood flukes—*Schistosoma mekongi*, *Schistosoma haematobium*, and *Schistosoma mansoni*. For biologists and parasitologists.

MEDICINE—Tropical Medicine

Staining blood films for malaria parasite examination (Filmstrip) U. S. Public Health Service, 1947.

90 fr., color, 35 mm. and disc 2 x, 16 in., 331 rpm, 15 min. (Malaria control series)

Order no. 5-072.

Based on the 1944 motion picture released under the title Preparation and staining of blood films.

Summary: Shows how to stain thick and thin blood films for the laboratory diagnosis of malaria; includes the technique of preparing Giemsa, Wright-Giemsa, and Wright's blood stains.

Order no. 5-072.

17 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-5.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to chromomycosis, cryptococcosis, rhizomycosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-5.

15 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-6.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to actinomycosis, aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, histoplasmosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-6.

60 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-7.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to actinomycosis, aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, histoplasmosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-7.

60 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-8.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to actinomycosis, aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, histoplasmosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-8.

60 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-9.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to actinomycosis, aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, histoplasmosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-9.

60 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-10.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to actinomycosis, aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, histoplasmosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-10.

60 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-11.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to actinomycosis, aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, histoplasmosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-11.

60 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-12.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to actinomycosis, aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, histoplasmosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-12.

60 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-13.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to actinomycosis, aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, histoplasmosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-13.

60 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-14.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to actinomycosis, aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, histoplasmosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-14.

60 double fr., color, 35 mm. (The histopathology of human fungus infections)

Order no. F 13-15.

Summary: Depicts morphological characteristics of tissue phases of fungi with particular reference to actinomycosis, aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, histoplasmosis, and sporotrichosis. Consists of pictures which may be used for making 2 x 2-inch slides.

Order no. F 13-15.

Walter Reed and the conquest of yellow fever (Filmstrip) Metropolitan Life Insurance Co., 1946. Made by E. J. Barnes Associates.

60 fr., b&w, 35 mm. (Health heroes series)

Reel version of the 1920 filmstrip.

With booklet.

Based on the biography Walter Reed, by Grace T. Hallack and G. E. Turner.

MEDICINE—Veterinary Medicine

Modern control of poultry diseases (Filmstrip) American Cyanamid Company, Lederle Laboratories Division, 1949.

color, 35 mm.

Summary: Discusses the effectiveness of sulfonamides, P. H. powder, and virus vaccines in the prevention and treatment of poultry diseases. Explains symptoms, and shows methods of treatment for coccidiosis, pullorum disease, acute fowl cholera, coryza (cold and roup), leucodysenteria, fowl pox, and worm infestations. Describes the usefulness of antileishmaniasis, sulmet and veteramine, and demonstrates methods of mixing these sulmet in mash and drinking water.

Order no. F 20-4.

Summary: Presents the common diseases of the horse, and explains how they may be recognized, the predisposing causes, control measures, and general emergency treatment.

Order no. F 20-4.

64 fr., b&w, 35 mm.

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Order no. F 20-4.

64 fr., b&w, 35 mm.

Order no. F 20-4.

General structure of the horse and mule (Filmstrip) U. S.

War Dept., 1912.

191 fr., b&w, 35 mm.

Order no. F 8-33.

Summary: Shows anatomical structure of the horse and the mule.

Order no. F 8-33.

191 fr., b&w, 35 mm.

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Order no. F 8-33.

191 fr., b&w, 35 mm.

Order no. F 8-33.

191 fr., b&w, 35 mm.

Order no. F 8-33.

PHYSICS

Airplanes and how they fly (Filmstrip) Eye Gate House, 1952.

26 fr., color, 35 mm. (Science in everyday life)

With teacher's manual.

Summary: Shows how air helps planes fly; describes types and parts of an airplane and their uses; explains devices to make flying safer, and how an airplane is controlled in flight. For elementary grades.

Order no. F 13-1.

26 fr., color, 35 mm.

Order no. F 13-1.

26 fr., color, 35 mm.

Order no. F 13-1.

26 fr., color, 35 mm.

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26 fr., color, 35 mm.

Order no. F 13-1.

26 fr., color, 35 mm.

PHYSICS

Basic principles of the analytical balance (Filmstrip) U. S. Public Health Service, 1951.

100 ft., b&w, 35 mm. and disc: 1 s., 10 in., 333 rpm, 13 min.
Order no. P 12.
Motion picture with same title, covering same subject matter, also available.
Summary: Explains the uses of the analytical balance and shows how to find the zero point of the balance, find its sensitivity, calibrate the weights, weigh an object, and weigh out a predetermined amount of material.

Bernoulli's principle (Filmstrip) Jam Handy Organization, 1946.

61 ft., b&w, 35 mm. (Fluids, a unit of air age physics, no. 11)
Summary: Explains the relationship between fluid pressure and fluid velocity. States Bernoulli's principle, shows how it explains the lifting effect of air on a plane's wings, and includes other examples of its application.

Buoyancy and Archimedes' principle (Filmstrip) Jam Handy Organization, 1946.

62 ft., b&w, 35 mm. (Fluids, a unit of air age physics, no. 3)
Summary: Describes buoyancy in liquids, the relationship between buoyancy and the amount of liquid displaced, Archimedes' principle, and buoyancy in gases.

Centrifugal force (Filmstrip) Jam Handy Organization, 1944.

53 ft., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 10)
Summary: Covers uniform circular path; velocity; centripetal acceleration; centrifugal force and the equal and opposite centrifugal force.

Density and specific gravity: Flotation (Filmstrip) Jam Handy Organization, 1946.

65 ft., b&w, 35 mm. (Fluids, a unit of air age physics, no. 4)
Summary: Defines density and specific gravity. Describes British and metric units, and the laws of flotation.

Effects of molecular motion (Filmstrip) Jam Handy Organization, 1947.

61 ft., b&w, 35 mm. (Matter and molecules, a unit of air age physics, no. 1)
Summary: Explains molecular motion in gases. Shows why gases are compressible, why gases exert pressure, and why gas pressure is inversely proportional to volume. Covers diffusion of gases, and other molecular motion in gases and in the process of osmosis.

Elementary science series: (Filmstrip) Instructional Films, Inc., 1952.

4 filmstrips, b&w, 35 mm.
For the summary of an individual filmstrip in this series see the summary of the motion picture of the same title in the section "Descriptions of Motion Pictures" under the subject "Physics."
Contents: 1. Nothing but air, 47 ft.—2. Water in the air, 49 ft.—3. We make a fire, 50 ft.—4. What is soil? 43 ft.

Electricity, mechanics, and the atmosphere series: (Filmstrip) Society for Visual Education, Inc., 1948.

6 filmstrips, b&w, 35 mm.
Contents: 1. The air about us, 48 ft.—2. Electric magnets, 47 ft.—3. Electricity, 48 ft.—4. Our oceans of air, 48 ft.—5. Permanent magnets, 47 ft.—6. Simple machines, 78 ft.

Electromagnets (Filmstrip) Young America Films, 1952.

41 ft., color, 35 mm. (Elementary Science Series, Set no. 2)
Summary: Explains the principle of electromagnetism, and shows how the electromagnet is used in dentistry, telephones, telegraph sets, and electric motors. For elementary grades.

Energy (Filmstrip) Jam Handy Organization, 1944.

62 ft., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 12)
Summary: Describes ability to do work; energy of position; energy of motion; units of energy; conversion of energy from one form to another; the law of conservation of energy.

Exploring the atmosphere: Streamline flow (Filmstrip) Jam Handy Organization, 1946.

80 ft., b&w, 35 mm. (Fluids, a unit of air age physics, no. 7)
Summary: Points out that atmospheric pressure and the density of the atmosphere vary with altitude, and shows aviation applications. Describes the three layers of the atmosphere, the meaning of streamline flow, the influence of a moving object's shape on fluid flow, and the development of aerodynamics in the field of transportation.

Exploring TV (Filmstrip) McGraw-Hill Book Company, Inc., 1954.

45 ft., color, 35 mm.

The eye and the camera (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1951.

50 ft., b&w, 35 mm.
Summary: Explains the behavior of light, how the camera lens works in the eye and in the camera; demonstrates how the Pinhole camera works. For elementary, junior and senior high school grades.

Force (Filmstrip) Jam Handy Organization, 1944.

62 ft., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 3)
Summary: Discusses natural and man-made forces, push, acceleration, and force; and units of force.

Force and velocity as vectors (Filmstrip) Jam Handy Organization, 1944.

53 ft., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 4)
Summary: Defines, explains, and illustrates vector quantities, non-vectors, and composition; describes equilibrium; discusses the application of force and velocity to navigation.

Friction (Filmstrip) Jam Handy Organization, 1944.

52 ft., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 14)
Summary: Describes work against friction; useful friction; lubrication to reduce friction; kinds of friction: static, sliding, rolling, fluid. Measurements of the forces of friction; and streamlining to reduce fluid friction.

Friction at work (Filmstrip) Young America Films, 1953.

48 ft., color, 35 mm. (Elementary science series. Set no. 4)
Eastman color
Summary: Captioned drawings and cartoons are used in demonstrating how the force of gravity affects everyday living. Explains that gravity pulls everything toward the center of the earth and that its force is determined by the weight of the object and its distance from the earth. Shows how man has learned to overcome the force of gravity.

Frictional electricity (Filmstrip) Young America Films, 1953.

45 ft., b&w, 35 mm. (Elementary science series. Set no. 3)
With teacher's guide.
Summary: Explains the basic facts about frictional electricity and the causes of thunder and lightning. Demonstrations are used to show that unlike charges attract each other and like charges repel.

Fusion (Filmstrip) Jam Handy Organization, 1948.

74 ft., b&w, 35 mm. (Heat, a unit of air age physics, no. 5)
Summary: Discusses melting and freezing, the characteristics of substances while freezing or melting, the heat of fusion, how to find the heat of fusion of water, and the temperature of melting ice.

Gas expansion (Filmstrip) Jam Handy Organization, 1948.

72 ft., b&w, 35 mm. (Heat, a unit of air age physics, no. 3)
Summary: Shows how gases expand when heated, and demonstrates expansion according to the laws of Charles, Gay-Lussac, and Boyle. Discusses problems involving formulas for the expansion of gases.

Gas pressure (Filmstrip) Jam Handy Organization, 1946.

64 ft., b&w, 35 mm. (Fluids, a unit of air age physics, no. 9)
Summary: Compares the compressibility of gases and liquids; describes the expansibility of gases, everyday examples and applications of gas pressure, Boyle's law, and problems of gas pressure.

General science series (Filmstrip) Encyclopaedia Britannica Films, Inc.

8 filmstrips, b&w, 35 mm.
For the summary of an individual filmstrip in this series see the summary of the motion picture of the same title in the section "Descriptions of Motion Pictures" under the subject "Physics."
Contents: —1. Atmosphere and its Circulation, 75 ft.—2. Electrifying Heat Energy, 75 ft.—3. Elements of Electrical Circuits, 75 ft.—4. Fuels and Heat, 75 ft.—5. Home Electrical Appliances, 75 ft.—6. Series and Parallel Circuits, 75 ft.—7. Simple Machines, 75 ft.—8. Weather, 75 ft.

Gravitation (Filmstrip) Jam Handy Organization, 1944.

49 ft., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 8)
Summary: Explains the attraction of the earth for objects on the earth, gravitation as a universal attraction; force of attraction; units of force, dyne and pound; acceleration due to gravity; falling bodies; center of gravity; torque and introduction to moments.

Gravity (Filmstrip) Young America Films, 1953.

45 ft., color, 35 mm. (Elementary science series. Set no. 4)
Eastman color
Summary: Captioned drawings and cartoons are used in demonstrating how the force of gravity affects everyday living. Explains that gravity pulls everything toward the center of the earth and that its force is determined by the weight of the object and its distance from the earth. Shows how man has learned to overcome the force of gravity.

Guglielmo Marconi (Filmstrip) Ego Gate House, 1951.

25 ft., color, 35 mm. (Men who helped us find out)
With teacher's manual.
Summary: Presents the life of Guglielmo Marconi and shows his invention of the wireless telegraph.

Heat expansion (Filmstrip) Jam Handy Organization, 1948.

80 ft., b&w, 35 mm. (Heat, a unit of air age physics, no. 2)
Summary: Shows why heat makes matter expand; illustrates the expansion of metals, concrete, glass, and liquids; explains the importance of heat expansion; points out expansion characteristics of metals and other materials, and useful applications of expansion.

Heat transfer (Filmstrip) Jam Handy Organization, 1948.

74 ft., b&w, 35 mm. (Heat, a unit of air age physics, no. 9)
Summary: Illustrates the transfer of heat by conduction, convection, and radiation. Discusses the ability of various materials to conduct heat, and to prevent the transfer of heat.

How color television works (Filmstrip) Popular Science Pub. Co., 1954.

44 ft., color, 35 mm.
Aston color.
With teaching guide.
Summary: Captioned drawings are used in explaining the basic principles of television tubes. Explains that the television primary colors of red, blue, and green, are used to form the other colors and are combined in form white. Compares the similarities and differences in the three-electron gun tube and the Chromatone tube which uses a single electron gun. Describes various TV cameras and explains the transmission of color TV signals.

How heat is transferred (Filmstrip) Young America Films, 1953.

49 ft., color, 35 mm. (Elementary science series. Set no. 4)
Eastman color.
Summary: Captioned drawings and cartoons are used to show how the energy of heat is utilized. Shows how heat is conducted by metals, wood, and air; demonstrates how heat is transferred through liquids and gases by convection; and discusses the principles of heat radiation.

How heat travels (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1951.

51 ft., b&w, 35 mm.
With teacher's guide.
Summary: How heat travels through solids, liquids, and gases; why some materials and colors absorb heat better; and how man benefits by his knowledge of convection, conduction, and radiation of heat. For elementary, junior and senior high school grades.

PHYSICS

How our earth began (Filmstrip) Curriculum Films, 1951.
28 fr., color, 35 mm. (Science I, intermediate series)

Eastman color.
Revised version of the 1947 filmstrip.
With teacher's manual.
Summary: Visualizes the process by which the earth may have originated, and shows how current theories, which are based on observable facts, are constantly being checked and revised.

How television works (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1950.
40 fr., b&w, 35 mm.

Eastman color.
Summary: In familiar terms explains the basic scientific principles of television and applies these principles to television transmission and reception. Illustrates television equipment and describes color television. For junior and senior high school grades.

How we measure heat (Filmstrip) Film Strip-of-the-Month Club, 1954. Released by McGraw-Hill Book Company.
45 fr., color, 35 mm.

Eastman color.
With teacher's guide.
Summary: Colorized drawings are used to demonstrate how solids, liquids, and gases expand when heated and contract when they cool. Describes the development of thermometers and explains the principles of the liquid, air, compound bar, mercury, and alcohol thermometers. Shows how special types of thermometers—bimetallic thermometer, the electric resistance thermometer, the thermocouple thermometer, the optical pyrometer, and the clinical thermometer—are used in scientific and practical work.

Humidity (Filmstrip) Jam Handy Organization, 1948.
87 fr., b&w, 35 mm. (Heat, a unit of air age physics, no. 8)

Eastman color.
Summary: Explains the relationship between the weight of air and the weight of water vapor in the air. Discusses relative humidity, air conditioning, and ways in which air is warmed and cooled.

Internal combustion engines (Filmstrip) Jam Handy Organization, 1948.
88 fr., b&w, 35 mm. (Heat, a unit of air age physics, no. 11)

Eastman color.
Summary: Explains the theories and uses of internal combustion engines, and types of heat engines. Shows basic diagrams of gas turbines, turbo-propellers, jet propulsion, rocket power, reaction motors, and a duct engine.

Introduction to airplane instruments (Filmstrip) U. S. Army Air Forces, 1942. Released for public educational use through U. S. Office of Education, 1943.
61 fr., b&w, 35 mm.

Eastman color.
Summary: Explains the purposes, principles, and types of aircraft instruments.

An invisible ocean, pt. A: Exploring the air (Filmstrip) Charles Scribner's Sons, 1954.
30 fr., color, 35 mm.

Eastman color.
With teacher's guide.
Correlated with Book 7 of The wonderworld of science, by Warren Knox and others.
Summary: Presents a study of the three layers of the atmosphere—the troposphere, the stratosphere, and the ionosphere. Discusses the by none in protecting man against the sun's rays; describes the nature and sources of cosmic rays that enter the atmosphere; shows how the ionosphere makes long-distance radio transmission possible; explains that the aurora borealis forms in the gases that make up the atmosphere.

An invisible ocean, pt. B: Putting air to work (Filmstrip) Charles Scribner's Sons, 1954.
31 fr., color, 35 mm.

Eastman color.
With teacher's guide.
Correlated with Book 7 of The wonderworld of science, by Warren Knox and others.
Summary: Demonstrates the use of air pressure in everyday life by tracing each step in the operation of a vacuum cleaner. Shows the use of compressed air in jet flying suits, tunnel digging, diving, and in submersibles, and illustrates the use of rare atmospheric gases in neon signs.

Jet pumps, siphons, rotating pumps (Filmstrip) Jam Handy Organization, 1946.
50 fr., b&w, 35 mm. (Fluids, a unit of air age physics, no. 13)

Eastman color.
Summary: Covers the siphon, ejector, the siphon, the hydraulic ram, propeller-type fans and blowers, the centrifugal pump, and centrifugal blower, the vane pump, the gear pump, the eccentric pump, and rotating fluid devices for performing work.

Light (Filmstrip) Young America Films, 1952. © Young America Films, Inc.; 3374335; 371170.
30 fr., color, 35 mm. (Elementary science series. Set no. 2)

Eastman color.
Summary: Describes the principles of light. Explains the meaning of the following terms: luminous, reflection, transparent, translucent, opaque, and refraction.

Light in our daily lives (Filmstrip) Eyo Gate House, 1952.
20 fr., color, 35 mm. (Science in everyday life)

Eastman color.
Summary: Shows the difference between artificial and natural light, the sun as a source of light and heat, how light travels, and how the eye sees. Explains the principle involved in a lens and the use of the lens in many instruments. For elementary grades.

Liquid pressure (Filmstrip) Jam Handy Organization, 1948.
75 fr., b&w, 35 mm. (Fluids, a unit of air age physics, no. 1)

Eastman color.
Summary: Shows that pressure in liquids is proportional to depth and density; explains the hydraulic press; demonstrates how force and pressure problems.

Machines for daily use (Filmstrip) Eyo Gate House, 1952.
26 fr., color, 35 mm. (Science in everyday life)

Eastman color.
Summary: Shows the meaning and importance of gravity, friction, and inertia. Explains the underlying principles of each of air machines—the lever, the inclined plane, the pulley, the wheel and axle, the screw, and the wedge. For elementary grades.

Madame Curie (Filmstrip) Eyo Gate House, 1951.
26 fr., color, 35 mm. (Men who helped us find out)

Eastman color.
Summary: Presents the life and work of Madame Curie, and of her husband Pierre Curie, with emphasis on their discovery of radium.

Magnetism (Filmstrip) General Electric Co., 1945.
42 fr., b&w, 35 mm.

Eastman color.
Revision of the 1930 filmstrip.
With script.
Summary: In non-technical language presents an introduction to the principles of magnetism.

Magnets (Filmstrip) Young America Films, 1949.
46 fr., b&w, 35 mm. (Elementary science series, set no. 1)

Eastman color.
With teacher's guide.
Summary: Demonstrates the essential facts about the nature and behavior of simple bar magnets. Built around the activities of two children who learn what a simple bar magnet is and some of the things it can do. For elementary school.

Matter (Filmstrip) Jam Handy Organization, 1947.
61 fr., b&w, 35 mm. (Matter and molecules, a unit of air age physics, no. 2)

Eastman color.
Summary: Explains the general properties of matter; shows that it has weight and mass, takes up space, is impenetrable, possesses inertia. Points out the three states of matter: solid, liquid, and gas; and that matter may change from one state to another.

Measurement of heat (Filmstrip) Jam Handy Organization, 1948.
68 fr., b&w, 35 mm. (Heat, a unit of air age physics, no. 4)

Eastman color.
Summary: Illustrates the indirect relationship of quantity of heat to temperature, and states formulas for determining heat gain or loss in a substance under temperature change. Discusses finding specific heat, and principles of heat flow.

Measuring fluid pressure (Filmstrip) Jam Handy Organization, 1945.
50 fr., b&w, 35 mm. (Fluids, a unit of air age physics, no. 10)

Eastman color.
Summary: Describes the importance of measuring liquid and gas pressure, the Bourdon gauge, units of pressure, the aneroid barometer, the use of the manometer and Bourdon gauge in measuring gas pressure, and vacuum gauge.

Michael Faraday (Filmstrip) Eyo Gate House, 1951.
20 fr., color, 35 mm. (Men who helped us find out)

Eastman color.
Summary: Presents the life of Michael Faraday, shows his experimental investigations of physical nature, and explains his descriptive theory of electricity.

Molecular forces in liquids (Filmstrip) Jam Handy Organization, 1947.
73 fr., b&w, 35 mm. (Matter and molecules, a unit of air age physics, no. 5)

Eastman color.
Summary: Explains the cause and effect of surface tension and demonstrates surface tension through soap action in water, and through alcohol in antiseptic. Describes capillary action, adhesion, and cohesion, and presents applications of each in plant culture.

Molecular forces in matter (Filmstrip) Jam Handy Organization, 1947.
58 fr., b&w, 35 mm. (Matter and molecules, a unit of air age physics, no. 5)

Eastman color.
Summary: Explains and gives examples of cohesion and adhesion to solids, liquids, and gases. Describes greater expansibility of gases and special properties of matter. Explains and demonstrates elasticity, ductility, malleability, hardness, and plasticity.

PHYSICS

Moving things from place to place, pt. A: Modern engines (Filmstrip) Charles Scribner's Sons, 1951.
31 fr., color, 35 mm.

Eastman color.
With teacher's guide.
Correlated with Book 8 of The wonderworld of science, by Warren Knox and others.
Summary: Explains the operation of the modern diesel engine and the turbojet engine; shows how the chemical energy of fuel is converted into mechanical energy in both the diesel and the turbojet engine.

Moving things from place to place, pt. B: Putting engines to work (Filmstrip) Charles Scribner's Sons, 1951.
30 fr., color, 35 mm.

Eastman color.
With teacher's guide.
Correlated with Book 8 of The wonderworld of science, by Warren Knox and others.
Summary: Illustrates with models the working parts of a diesel engine, the principle of a turbine, and the operation of a simple rocket engine.

Newton's laws of motion (Filmstrip) Jam Handy Organization, 1944.
58 fr., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 7)

Eastman color.
Summary: Explains laws dealing with inertia, change of momentum, and illustrates; discusses the forces involved in motion.

Optics, including phase-contrast, the method for observation of small refractive differences in transparent objects (Filmstrip) Phase Films, 1952.
29 fr., b&w, 35 mm.

Eastman color.
With teacher's guide.
Summary: Consists of twenty-seven diagrams which may be used in explaining basic optical concepts, optical principles which are known by the names of their originators, and the Zeiss phase-contrast principle as applied in the microscope.

Our earth in motion (Filmstrip) Jam Handy Organization, 1952.
40 fr., color, 35 mm. (Seasons, weather, and climate, no. 1)

Eastman color.
Summary: Defines the terms rotation, revolution, and gravity. Explains why there is day and night and how time is told according to the speed of the rotating earth. For junior high school grades.

Our earth is moving (Filmstrip) Curriculum Films, 1951.
23 fr., color, 35 mm. (Science I, intermediate series)

Eastman color.
Revised version of the 1947 filmstrip.
With teacher's manual.
Summary: Discusses the movements of the earth, and explains the reasons for day and night and the seasons.

Power (Filmstrip) Jam Handy Organization, 1944.
42 fr., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 12)

Eastman color.
Summary: Outlines the progress of civilization due to power. Covers the definition of power; units of power; horsepower; power, transmission, and use of power.

Practical TV, alignment (Filmstrip) McGraw-Hill Book Company, Inc., 1953.
45 fr., b&w, 35 mm.

PHYSICS

Principles of liquids and gases (Filmstrip) U. S. Army Air Force, 1942. Released for public educational use through U. S. Office of Education, 1943.
6 filmstrips, color, 35 mm.
Covers: 1. Magnetism. 43 fr.—2. Electricity. 51 fr.—3. Sound. 43 fr.—4. Light. 50 fr.—5. Machines. 51 fr.—6. Chemical change. 47 fr.

Putting heat to work (Filmstrip) Jam Handy Organization, 1948.
74 fr., b&w, 35 mm. (Heat, a unit of air age physics, no. 10)
Summary: Explains Joule's law, and shows the operation of steam reciprocating engines and steam turbines.

Putting light to work (Filmstrip) Popular Science Pub. Co., 1954.
47 fr., color, 35 mm.
Anso color.
With teacher's guide.
Summary: Captions drawings and photographs depict the properties of light, its wave structure, and its control. Shows how the speed of light is measured, how polaroids control the passage of horizontal and vertical light waves, how three-dimensional optical pictures are made and viewed, and how candlepower and foot-candle units are applied to the measurement of illumination in typical lighting situations.

Reciprocating pumps (Filmstrip) Jam Handy Organization, 1946.
80 fr., b&w, 35 mm. (Fluids, a unit of air age physics, no. 12)
Summary: Covers the lift pump, the deep well pump, the force pump, various types of reciprocating liquid pumps, reciprocating liquid and gas devices for performing work, the reciprocating vacuum pump, and compressors.

Refrigeration (Filmstrip) Jam Handy Organization, 1948.
70 fr., b&w, 35 mm. (Heat, a unit of air age physics, no. 7)
Summary: Explains how the electrical refrigerative works, and demonstrates the cooling effect of expansion as used in refrigeration. Discusses the industrial applications of refrigeration, heat pumps, operation of the gas-fume refrigerator, and gas refrigeration applied to everyday living.

Rotary motion (Filmstrip) Jam Handy Organization, 1944.
58 fr., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 9)
Summary: Covers radius measure; angular velocity and acceleration; moments of inertia; and the comparison of formulae for linear and circular motion.

Round and round go the wheels (Filmstrip) Film Strip-of-the-Month Club, 1954. Released by McGraw-Hill.
36 fr., color, 35 mm.
Anso color.
With teacher's guide.
Summary: Describes the stages in the development of the first wheel; illustrates the uses of wheels in transportation, medicine, and recreation; and explains the ways in which the wheel makes various work easier. Captioned drawings and photographs.

Science at work (Filmstrip) Encyclopaedia Britannica, 1955.
6 filmstrips, color, 35 mm.
Covers: 1. Magnetism. 43 fr.—2. Electricity. 51 fr.—3. Sound. 43 fr.—4. Light. 50 fr.—5. Machines. 51 fr.—6. Chemical change. 47 fr.

The science of musical instruments (Filmstrip) Film Strip-of-the-Month Club, 1955. Released by McGraw-Hill.
47 fr., color, 35 mm.
Anso color.
Summary: Describes the principles of sound production in stringed and wind instruments. Shows, with simple experiments, how the sound waves of different tones can be compared in the classroom; discusses the nature and cause of overtones; describes how different instruments can be recognized from the sounds produced; and explains the meaning of high-fidelity reproduction in terms of frequency range. Captioned drawings.

Science of seeing (Filmstrip) General Electric Co., 1951.
65 fr., b&w, 35 mm. and disc: 1 s, 16 in, 281 rpm, 15 min.
Hardened version.
With script.
Summary: Explains the relation between lighting and seeing, and suggests ways to avoid eyestrain and improve efficiency.

Simple machines (Filmstrip) Jam Handy Organization, 1944.
84 fr., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 13)
Summary: Shows the elementary machines: pulleys, inclined plane, wheel and axle, differential pulley, levers. Explains mechanical advantage, input, output, and efficiency.

Simple machines (Filmstrip) Young America Films, 1929.
41 fr., color, 35 mm. (Elementary science series. Set no. 2)
Summary: Describes the four types of simple machines—the inclined plane, the lever, the wheel and axle, and the pulley—and shows how they are basic in the construction of complex modern machinery.

Sound (Filmstrip) The General Electric Company, 1945.
30 fr., b&w, 35 mm.
—Another issue, glass slides.
Summary: Physical properties and characteristics of sound waves; telephone and carrier-current communications.

The sounds we hear (Filmstrip) Eye Gate House, 1952.
25 fr., color, 35 mm. (Science in everyday life)
With teacher's manual.
Summary: Shows how sound is produced, how we hear sounds, how to make a room soundproof, how sound travels, and what causes low and high tones in sound. For elementary grades.

Speaking and hearing, pt. A: Sonic and supersonic sounds (Filmstrip) Charles Scribner's Sons, 1954.
35 fr., color, 35 mm.
Eastman color.
With teacher's guide.
Correlated with Book 8 of The wonderworld of science, by Warren Kest and others.
Summary: Explains the meaning of sound production, pitch, tone, and overtones. Demonstrates the principles of stringed instruments and the vocal chords, shows the difference between sonic and supersonic sounds and the appearance of sound waves of different pitches, including those in the ultrasonic or supersonic range.

Speaking and hearing, pt. B: Putting sound to work (Filmstrip) Charles Scribner's Sons, 1954.
33 fr., color, 35 mm.
Eastman color.
With teacher's guide.
Correlated with Book 8 of The wonderworld of science, by Warren Kest and others.
Summary: Explains the principles of the hearing process and describes the functioning of the human ear; describes the manner in which sound travels through air and water; explains the use of ultrasonic sound in locating ships, submarines, and schools of fish at sea; and demonstrates recent applications of ultrasonic sound in killing germs, separating chemical compounds, homogenizing milk, and preserving food.

Specific gravity of solids and liquids (Filmstrip) Jam Handy Organization, 1946.
82 fr., b&w, 35 mm. (Fluids, a unit of air age physics, no. 5)
Summary: Points out that specific gravity provides a means of identifying materials. Shows how to find the specific gravity of solids and liquids. Explains the bottle method, the low-of-weight method, and the hydrometer method. Includes problems and applications.

The story of Thomas A. Edison (Filmstrip) Popular Science Pub. Co., 1954.
43 fr., color, 35 mm.
Anso color.
With teacher's guide.
Summary: Captioned drawings portray the chief events of the inventor's life, from his precocious childhood to his productive later years. Surveys his contributions to civilization through discovered laws, inventions, or improvements of the electric light, telephone, stock ticker, phonograph, electric train, telephone, and projector, cinematograph, motion picture projector and studio, and storage batteries.

The structure of matter (Filmstrip) Jam Handy Organization, 1947.
67 fr., b&w, 35 mm. (Matter and molecules, a unit of air age physics, no. 3)
Summary: Explains what matter is made of. Visualizes molecules, atoms, neutrons, protons, and electrons. Describes the electron microscope, the kinetic theory, evaporation, and sublimation.

Television receivers (Filmstrip) McGraw-Hill Book Company, Inc., 1953.
36 fr., b&w, 35 mm.
Summary: Diagrams and live action are used to identify the sections of the receiver circuit and to summarize the functions of the receiver. Explains the specific functions of each section in a typical intercarrier sound receiver circuit, from the antenna and transmission line to the picture tube.

PHYSICS

Television system (Filmstrip) McGraw-Hill Book Company, Inc., 1953.
40 fr., b&w, 35 mm.

Summary: Animation and live action are used in explaining the principles of television broadcasting, from the camera tube at the studio to the picture tube at the receiver. Shows how the image is broken down into picture elements, identifies the procedure of interlacing, explains the function of each component of the video signal, and shows how the scanning raster is produced and the image reproduced in shades of black and white on the screen.

Temperature (Filmstrip) Jam Handy Organization, 1948.
68 fr., b&w, 35 mm. (Heat, a unit of air age physics, no. 1)
Summary: Explains the nature, origin, and significance of heat as a source of energy; shows how the study of energy is used and how temperature is measured. Discusses making accurate temperature measurements, and illustrates types of thermometers.

The thermometer (Filmstrip) Young America Films, 1953.
Produced by Key Productions.
61 fr., b&w, 35 mm. (Elementary science series. Set no. 3)

With teacher's guide.
Summary: Describes different kinds of thermometers—a room thermometer, the clinical thermometer, various types of metal thermometers, and the thermometer used to measure the temperature of boiling water—and explains how they work on the principle of expansion and contraction.

Transmitting pressure through liquids (Filmstrip) Jam Handy Organization, 1946.
42 fr., b&w, 35 mm. (Fluids, a unit of air age physics, no. 2)
Summary: Explains Pascal's law. Covers the hydraulic press, applications of the hydraulic principle, the measurement of mechanical advantage, and the computing of mechanical advantage problems.

Uniform motion (Filmstrip) Jam Handy Organization, 1944.
42 fr., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 5)
Summary: Covers straight line motion; the distinction between speed and velocity; distance, time, and velocity; vectors and the composition of vectors.

Uniformly accelerated motion (Filmstrip) Jam Handy Organization, 1944.
52 fr., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 6)
Summary: Explains the relation of acceleration to velocity, time, and distance. Covers uniform acceleration, acceleration and deceleration, positive and negative acceleration, examples of acceleration, introduction to gravity, and application to trajectories.

Units of measurements (Filmstrip) Jam Handy Organization, 1944.
40 fr., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 2)
Summary: Compares the English and the metric system of measurement, and shows how to convert each system to the other. Covers fundamental units: mass, length, and time; and derived units: velocity, force, work, power, area, volume, etc. Points out the necessity for units.

PHYSICS

Vaporization (Filmstrip) Jam Handy Organization, 1948.

83 fr., b&w, 35 mm. (Heat, a unit of air age physics, no. 6)
Summary: Demonstrates evaporation, boiling, and sublimation, using examples under varying pressures; discusses the usefulness of heat of vaporization.

Water and its importance (Filmstrip) Eye Gate House, 1952.

26 fr., color, 35 mm. (Science in everyday life)
With teacher's manual.
Summary: Shows the different forms of water, and describes the use of water. Explains the purification of water, why objects float or sink in water, and the use of dams in controlling water power. For elementary grades.

Water and its work (Filmstrip) Young America Films, 1953. Produced by Key Productions.

40 fr., b&w, 35 mm. (Elementary science series. Set no. 3)
With teacher's guide.
Summary: Explains that the water on the earth's surface is flowing in an endless cycle between the earth and sky. Describes how water is used for washing, drinking, cooling, and as a source of power.

Why study physics? (Filmstrip) Jam Handy Organization, 1947.

50 fr., b&w, 35 mm. (Matter and molecules, a unit of air age physics, no. 1)
Summary: Explains the part physics plays in our daily lives; its vocational applications; its usefulness around the home; its application in biology.

Why things float (Filmstrip) Young America Films, 1953. Produced by Key Productions.

41 fr., b&w, 35 mm. (Elementary science series. Set no. 3)
With teacher's guide.
Summary: Experiments show that floating does not depend upon weight and size alone, but that an object floats when it is so heavier than the water it displaces.

Work (Filmstrip) Jam Handy Organization, 1944.

40 fr., b&w, 35 mm. (Mechanics, a unit of air age physics, no. 11)
Summary: States the physical definition of work. Covers work done against gravity, work done against friction, and units of work.

X-Rays (Filmstrip) The General Electric Company, 1941.

52 fr., b&w, 35 mm.
Summary: Discovery of x-ray; its uses in medicine, industry, etc.

PHYSICS—Electricity

Alternating current (Filmstrip) Jam Handy Organization, 1941.

90 fr., b&w, 35 mm. (Basic electricity, no. 8)
Summary: Explains inductance, capacitance, and impedance in a circuit; pictures transformers and rectifiers.

Applications, part 1 (Filmstrip) Jam Handy Organization, 1941.

60 fr., b&w, 35 mm. (Basic electricity, no. 11)
Summary: The application of electricity in heating and lighting.

Applications, part 2 (Filmstrip) Jam Handy Organization, 1941.

56 fr., b&w, 35 mm. (Basic electricity, no. 12)
Summary: The application of electricity in telephones, motors, radio, and electroplating.

Current electricity (Filmstrip) Jam Handy Organization, 1941.

74 fr., b&w, 35 mm. (Basic electricity, no. 5)
Summary: Explains laws of current flow in the various types of circuits.

Deflection output circuits (Filmstrip) McGraw-Hill Book Company, Inc., 1953.

40 fr., b&w, 35 mm.
Summary: Animated drawings are used to illustrate and explain the arrangement and function of vertical and horizontal output circuits for magnetic deflection.

Direct current controllers (Filmstrip) U. S. Office of Education, 1945. Produced by Calvin Co.

27 fr., b&w, 35 mm. (Electrical work series. Motor control, no. 1)
Order no. OES 889-K
With instructor's manual. Supplemental motion picture of same title.
Summary: Shows about motors and direct current controllers in operation, and by animation, a direct current amplifier controller connected to a shunt motor.

The electric cell (Filmstrip) Jam Handy Organization, 1941.

50 fr., b&w, 35 mm. (Basic electricity, no. 4)
Summary: Describes the change of chemical energy into electrical energy, and explains primary and secondary cells.

Electric meters (Filmstrip) Jam Handy Organization, 1941.

83 fr., b&w, 35 mm. (Basic electricity, no. 10)
Summary: Explains the construction and operation of various types of meters for electrical use.

Electric motors (Filmstrip) Jam Handy Organization, 1941.

68 fr., b&w, 35 mm. (Basic electricity, no. 9)
Summary: Explains principles of the motor; and describes direct and alternating current motors, and universal motors.

Electricity (Filmstrip) Young America Films, 1949.

41 fr., b&w, 35 mm. (Elementary science series, set no. 1)
With teacher's guide.
Summary: Explains the factors which affect the flow of electricity through a simple circuit, introduces the electron theory, and shows the application of a simple circuit to a home situation. For elementary school.

Electromagnetism (Filmstrip) Jam Handy Organization, 1941.

50 fr., b&w, 35 mm. (Basic electricity, no. 6)
Summary: Shows the construction and use of the electromagnet, and explains effects of the electromagnetic field.

The generator (Filmstrip) Jam Handy Organization, 1941.

77 fr., b&w, 35 mm. (Basic electricity, no. 7)
Summary: Explains principles of the generator, types of generators, and the generating of direct and alternating current.

How we get our electricity (Filmstrip) Key Productions.

Released by Young America Films, 1950.
37 fr., b&w, 35 mm. (Products and industries, set 3)
Summary: How electricity is generated in steam plants; steam used to power huge generators which produce electricity. Hydro-electric plants. Importance of electricity.

Magnetism (Filmstrip) Jam Handy Organization, 1941.

62 fr., b&w, 35 mm. (Basic electricity, no. 1)
Summary: Treats the general properties and laws of magnets and explains magnetic effects.

Static electricity (Filmstrip) Jam Handy Organization, 1941.

73 fr., b&w, 35 mm. (Basic electricity, no. 2)
Summary: Explains the electron theory of positive and negative charges.

The storage battery (Filmstrip) Jam Handy Organization, 1941.

83 fr., b&w, 35 mm. (Basic electricity, no. 5)
Summary: The construction and use of the commercial storage battery.

PHYSICS—Meteorology

Air in action (Filmstrip) Curriculum Films, 1952.

26 fr., color, 35 mm. (The weather series)
Eastman color.
With teacher's manual.
Summary: Explains why winds blow, the importance of winds to man, and the varying speed of winds.

Basic weather series (Filmstrip) Society for Visual Education, 1919.

4 filmstrips, b&w, 35 mm.
Summary: Explains basic scientific principles responsible for our climate and daily weather changes by means of diagrams and photographs.
Contents: 1. Why does the wind blow? 50 fr.—2. Why does the weather change? 71 fr.—3. Why the seasons? 41 fr.—4. Why does it rain, snow, hail, and sleet? 51 fr.

PHYSICS—Meteorology

Changing weather, pt. A: Exploring weather fronts (Filmstrip) Charles Scribner's Sons, 1954.

34 fr., color, 35 mm.
Eastman color.
With teaching guide.
Summary: Describes the air masses and the weather fronts that move over the North American continent. Identifies the polar, tropical, and maritime air masses; traces the causes of weather in their origin in the polar and tropical sources; shows the interaction of air masses in the formation of different fronts; and explains what is meant by a cold, warm, stationary, and occluded front.

Changing weather, pt. B: What weather fronts bring (Filmstrip) Charles Scribner's Sons, 1954.

29 fr., color, 35 mm.
Eastman color.
With teaching guide.
Summary: Shows how the movement of cold, warm, stationary, and occluded fronts is used in predicting the weather; and explains that wind and cloud changes are associated with frontal movements.

Climate (Filmstrip) Jam Handy Organization, 1952.

41 fr., color, 35 mm. (Seasons, weather, and climate, no. 6)
Summary: Describes what climate is and why it is important to us. Explains how climate is affected by the rays of the sun and the tilting of the earth's axis, as well as by altitude, mountain ranges, bodies of water, ocean currents, winds, and vegetation. For junior high school grades.

Climate and weather (Filmstrip) Eye Gate House, 1956.

30 fr., color, 35 mm. (Earth, home of man, no. 9)
With teacher's manual.
Summary: Illustrates the difference between climate and weather; explains the factors determining each, such as ocean currents, winds, altitude, and moisture, showing their effects on climatic and weather changes.

Climates (Filmstrip) Young America Films, 1953.

48 fr., color, 35 mm. (Elementary science series. Set no. 4)
Eastman color.
Summary: Captions drawings and cartoons are used to explain differences in climates. Explains that the chief factor in determining the climate of a zone is its distance from the equator. Shows how the climate within a zone is affected by such factors as height above sea level, mountains and air currents, ocean currents, and nearness to large bodies of water.

Clouds and weather (Filmstrip) Long Filmalike Service.

Released by Society for Visual Education and Long Filmalike Service, 1947.
46 fr., b&w, 35 mm. (Nature study illustrated. Little Journeys and weather series)
With manual.
Summary: Tells how seasons change, how dew and snow are formed, how different clouds form, and what the various formations indicate. For intermediate grades and high school.

How does water get into the air? (Filmstrip) Jam Handy Organization, 1955.

31 fr., color, 35 mm. (First experiments about weather, no. 2)
Eastman color.
Summary: As a result of three experiments, a young boy learns how water gets into the air. Shows the evaporation of water from a bowl, from the soil, from a plant, and from water standing in an uncovered jar. Captions drawings.

PHYSICS—Meteorology

Our weather (Filmstrip) Encyclopedia Britannica Films, 1955. Made by William P. Gottlieb Co.
50 fr., color, 35 mm. (Primary science)

Eastman color.
Summary: Explains that summer is hotter than winter because of the relative positions of the sun and the earth. Shows changes in nature which occur in each of the four seasons and depicts children participating in outdoor activities which are identifiable with each season. Captioned drawings.

The seasons (Filmstrip) Encyclopedia Britannica Films, 1955. Made by William P. Gottlieb Co.
40 fr., color, 35 mm. (Primary science)

Eastman color.
Summary: Captioned drawings are used to explain that weather is constantly changing and that the sun causes the weather to change by making water and air warm. Shows how water rises into the air and returns to the earth as rain or snow. Explains that the sun moves and that moving air causes weather changes.

Thunderstorms (Filmstrip) Curriculum Films, 1952.

24 fr., color, 35 mm. (The weather series)
Eastman color.
Summary: Explains how thunderstorms arise, and how lightning and thunder are produced.

Weather (Filmstrip) Jam Handy Organization, 1942.

37 fr., b&w, 35 mm. (Atmospheric science, no. 30)
Summary: Discusses the factors determining weather conditions: formation of clouds; ten types of clouds, their movement, customary altitudes, and temperatures; rain, thunder storms, and squall winds; procedure avoiding storms; weather map interpretation; and weather reports.

Weather (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, in cooperation with L. W. Slinger Co., 1949.

3 filmstrips, color, 35 mm.
With teacher's guide.
Summary: Describes and explains the factors which influence weather conditions.
Contents: 1. We learn about weather. 48 fr.—2. Changes in weather. 48 fr.—3. Understanding weather conditions. 51 fr.

Weather (Filmstrip) Young America Films, 1953.

50 fr., color, 35 mm. (Elementary science series. Set no. 4)
Eastman color.
Summary: Captioned drawings and cartoons are used to show the relationship of weather to temperature, pressure, moisture, and nature of the air. Demonstrates how such instruments as thermometers, barometers, hygrometers, weather vane, anemometer, and weather balloons are used in predicting the weather. Explains that the position, speed, and direction of air masses help the weatherman to forecast weather over a wide area.

Weather and climate (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1951.

32 fr., b&w, 35 mm.
With teacher's guide.
Summary: Describes important weather factors, illustrating their effect upon weather changes in North America. Defines air pressure, weather fronts, and relative humidity, and explains the relationship between weather and climate. For elementary, junior and senior high school grades.

What is an experiment? (Filmstrip) Jam Handy Organization, 1955.

26 fr., color, 35 mm. (First experiments about weather, no. 1)
Eastman color.
Summary: After performing classroom experiments with a bowl of ice water, a level of warm water, and a thermometer, elementary school children formulate a conclusion as to how a thermometer works. Shows the children performing additional experiments in order to test the validity of their conclusion. Captioned drawings.

What is weather (Filmstrip) Jam Handy Organization, 1952.

38 fr., color, 35 mm. (Seasons, weather, and climate, no. 3)
Summary: Describes the influence of weather on food, transportation, and personal lives. Explains how to read the temperature on a thermometer and identifies different kinds of precipitation, winds, and clouds. For junior high school grades.

What is wind? (Filmstrip) Jam Handy Organization, 1955.

36 fr., color, 35 mm. (First experiments about weather, no. 5)
Eastman color.
Summary: Classroom experiments requiring a plastic bag, a balloon, and a straw are used in proving that wind is moving air. A young boy performs additional experiments and observes that the movement of air can be used to keep water out of a glass, hold paper onto a glass, and lift a book. Captioned drawings.

What makes rain (Filmstrip) Young America Films, 1949

40 fr., b&w, 35 mm. (Elementary science series, set no. 1)
With teacher's guide.
Summary: Explains evaporation and condensation as they apply to the water cycle. For elementary school grades.

What makes the weather? (Filmstrip) Eye Gate House, 1952.

26 fr., color, 35 mm. (Science to everyday life)
With teacher's manual.
Summary: Explains that weather is caused by the air around us, that moving air or wind is caused by heat from the sun, that precipitation occurs when air holding water vapor is cooled enough to form water or ice, and that different conditions of the air cause rain, hail, snow, sleet, dew, frost, and fog. For junior high school grades, and the uses of a weather map. For elementary grades.

What makes the weather (Filmstrip) Jam Handy Organization, 1952.

30 fr., color, 35 mm. (Seasons, weather, and climate, no. 4)
Summary: Explains that weather is caused by the air around us, that moving air or wind is caused by heat from the sun, that precipitation occurs when air holding water vapor is cooled enough to form water or ice, and that different conditions of the air cause rain, hail, snow, sleet, dew, frost, and fog. For junior high school grades.

What makes things dry faster? (Filmstrip) Jam Handy Organization, 1955.

30 fr., color, 35 mm. (First experiments about weather, no. 3)
Eastman color.
Summary: As a result of simple classroom experiments, a young girl learns that moving air and warm air hasten the drying process. Explains why a wet cloth which is spread out dries faster than a wet cloth which is rolled up. Captioned drawings.

Where do clouds come from? (Filmstrip) Jam Handy Organization, 1955.

28 fr., color, 35 mm. (First experiments about weather, no. 4)
Eastman color.
Summary: An elementary school teacher conducts experiments with boiling water and a tray of ice cubes in order to demonstrate how clouds are formed and how rain is precipitated. Captioned drawings.

PHYSICS—Nuclear Physics

The atom (Filmstrip) Life, 1949. Made by Science Pictures.

31 fr., color, 35 mm.
Anno color.
With lecture notes.
Summary: Discusses historical backgrounds of the atomic theory. Illustrates how the atom is made up of smaller particles, and describes its structure. Summarizes progress of atomic research, and shows a proposed periodic table.

Atomic energy for better health, pt. A: Radioactive atoms (Filmstrip) Charles Scribner's Sons, 1954.

22 fr., color, 35 mm.
Anno color.
With teaching guide.
Summary: Correlated with Book 8 of The wonderworld of science, by Warren Kneer and others.
Summary: Illustrates the structure of simple and complex atoms; explains the difference between the ordinary and radioactive isotopes; and shows how radioactive isotopes are made in atomic piles.

Putting atomic energy to work (Filmstrip) Popular Science Pub. Co., 1954.

48 fr., color, 35 mm.
Anno color.
With teacher's guide.
Summary: Outlines the reactions taking place in an atomic pile which result in the formation of heat; shows how this heat may be used to generate electricity to do work; illustrates the use of atomic energy in steam from boilers, thus enabling us to harness atomic energy to drive submarines, electric generators, and turbines; illustrates use of isotopes in treating diseases, killing bacteria, performing tests and measurements, and other useful tasks. Captioned drawings.

ZOOLOGY

Adaptations of birds (Filmstrip) Jam Handy Organization, 1946.

64 fr., b&w, 35 mm. (Basic bird study, no. 2)
With teacher's guide-Index.
Summary: Explains the uses of different types of birds' feet, beaks, and wings.

American birds guide (Filmstrip) Simon and Schuster. Released by Young America Films, 1951.

4 filmstrips (170 fr.) color, 35 mm. (Golden nature guides)
Part 1, 41 fr.; pt. 2, 44 fr.; pt. 3, 45 fr.; pt. 4, 45 fr.
With illustrated manual.
Summary: Shows 132 of the most familiar American birds. For elementary and high school grades.

ZOOLOGY

American insects guide (Filmstrip) Simon and Schuster. Released by Young America Films, 1951.

4 filmstrips (150 fr.) color, 35 mm. (Golden nature guides)
Part 1, 44 fr.; pt. 2, 45 fr.; pt. 3, 52 fr.; pt. 4, 51 fr.
With illustrated manual.
Summary: Shows 225 of the most familiar American insects. For elementary and high school grades.

American mammals (Filmstrip) Simon and Schuster. Released by Young America Films, 1955.

171 fr., color, 35 mm. (Golden nature guides)
Issued in 4 pts.: pt. 1, 42 fr.; pt. 2, 45 fr.; pt. 3, 57 fr.; pt. 4, 44 fr.
With illustrated manual.
Summary: Presents 218 familiar American mammals.

American reptiles & amphibians (Filmstrip) Simon and Schuster. Released by Young America Films, 1954.

4 filmstrips, color, 35 mm. (Golden nature guides)
Part 1, 31 fr.; pt. 2, 28 fr.; pt. 3, 46 fr.; pt. 4, 41 fr.
With illustrated manual.
Summary: Shows 212 of the most familiar American reptiles and amphibians.

Animal habits and families (Filmstrip) Eye Gate House, 1951.

27 fr., color, 35 mm. (Animals and their ways)
With teacher's manual.
Summary: Shows that almost all animals live in family groups; that each animal has a special title, and that in most animal families the mother looks after the young.

Animal behavior (Filmstrip) Curriculum Films, 1951.

23 fr., color, 35 mm. (Behavior of animals and plants series)
Anno color.
With teacher's manual.
Summary: Shows that food-getting behavior in "advanced" animals is more complex than in "simple" animals; and that animals respond to the need for self-protection, mating, and caring for their young.

Animal friends series (Filmstrip) Encyclopedia Britannica Films, Inc., 1953.

8 filmstrips, b&w, 35 mm.
For the summary of an individual filmstrip in this series see the summary of the motion picture of the same title in the section "Descriptions of Motion Pictures" under the subject "Zoology."
Contents: 1. Billy and Nancy (The twin goats), 50 fr.—2. Black bear twins, 50 fr.—3. Common animals of the woods, 50 fr.—4. Elephant, 50 fr.—5. Gray Squirrel, 50 fr.—6. Pidge, the saddle horse, 50 fr.—7. Sheep, the farm dog, 50 fr.—8. Three little kittens, 50 fr.—
—Another Jesus, color.

Animal homes (Filmstrip) McGraw-Hill Book Company, Inc., 1954.

30 fr., color, 35 mm.

ZOOLOGY

Animal pests (Filmstrip) Eye Gate House, 1951.
25 fr., color, 35 mm. (Animals and their ways)
With teacher's manual.
Summary: Describes the damage done by pests—destruction of crops, spreading of disease, killing of farm animals, etc.

Animal series (Filmstrip) The Creative Art Studio, Inc., 1947.
3 filmstrips, sepia, 35 mm.
Contents: 1. Animals of the forest, Part I: 43 fr.;
Animals of the Forest, Part II: 35 fr. 2. The horse, 36 fr.

Animals and seasons (Filmstrip) Curriculum Films, 1951.
© Curriculum Films, Inc.; 100251; JP11114.
8 filmstrips (27 fr. each) in 1 roll, color, 35 mm.
Summary: A series of drawings illustrating the effect of the seasons on animal life.
Contents: Air migration; Illustration: Henry J. Ketter—Land and water migration; Illustration: Raffaele Bianchi—Liberalization; Illustration: H. Alonso Stash—Adjustment to summer; Illustration: Peter Chel—Seasonal body changes; Illustration: Raffaele Bianchi—Seasonal habits; Illustration: H. Alonso Stash.

Animals fit themselves to their surroundings (Filmstrip) Eye Gate House, 1951.
25 fr., color, 35 mm. (Animals and their ways)
With teacher's manual.
Summary: Explains color protection among animals, showing how they can change color quickly, and the purpose of protective colors.

Animals of far-away lands (Filmstrip) Eye Gate House, 1951.
25 fr., color, 35 mm. (Animals and their ways)
With teacher's manual.
Summary: Shows that animals are found in every country of the world, and points out that most animals of far-away lands may be seen in the zoo.

Animals of our continent (Filmstrip) Eye Gate House, 1951.
25 fr., color, 35 mm. (Animals and their ways)
With teacher's manual.
Summary: Shows the usefulness of the animals of our continent—for food, for their fur, and as pets.

Animals of the pond (Filmstrip) Curriculum Films, 1951.
24 fr., color, 35 mm. (Nature study stories)
Eastman color.
Revised version of the 1940 filmstrip.
With teacher's manual.
Summary: Shows how a frog, a tadpole, snail, and a water bug live on a pond. Shows how they are related to the pond, and how they are related to each other.

Animals struggle to live (Filmstrip) Eye Gate House, 1951.
25 fr., color, 35 mm. (Animals and their ways)
With teacher's manual.
Summary: Shows that animals have been provided by nature with various means of protection—camouflage, hard shells, and claws.

Animals that help people travel (Filmstrip) Popular Science Pub. Co., 1954.
25 fr., color, 35 mm.
Eastman color.
With teacher's manual.
Summary: Explains how the horse, dog, elephant, zebu, camel, llama, burro, mule, ox, water buffalo, and reindeer help people travel. Captioned drawings.

Ann visits the zoo (Filmstrip) Curriculum Films, 1951.
25 fr., color, 35 mm. (Nature study stories)
Eastman color.
Revised version of the 1940 filmstrip.
With teacher's manual.
Summary: At the zoo, Ann sees many common and rare animals. Including large animals, birds, mountain goats, and pets. For primary grades.

The ant (Filmstrip) Eye Gate House, 1955.
25 fr., color, 35 mm. (The world of insects, no. 8)
With teacher's manual.
Summary: Describes how ants live in colonies, pointing out the similarity to the way the honey bee lives. Shows different varieties of ants and some of the ant's natural enemies.

Basic nature study (Filmstrip) Society for Visual Education, 1951.
20 filmstrips, color, 35 mm.
Summary: Drawings and photographs of actual specimens indicate the characteristics of living habits and special adaptations to their environments of some birds, insects, and reptiles. For intermediate grades through senior high school.
Contents: 1. How to recognize birds. 35 fr.—2. How birds are fitted for their work. 35 fr.—3. How insects live and grow. 40 fr.—4. How to identify snakes and butterflies. 35 fr.—5. Life cycle of the monarch butterfly. 25 fr.—6. Life of the heron. 35 fr.—7. Frog, toad, and turtle, and how they grow. 41 fr.—8. Snake and lizard you should know. 35 fr.—9. Identifying common trees; prepared by Ernest Schubert. 34 fr.—10. How plants grow and reproduce; prepared by Ernest Schubert. 41 fr.

Bears, pandas, and raccoons (Filmstrip) Society for Visual Education, 1952.
30 fr., color, 35 mm. (Animals of the world; Mammal set)
Summary: Through captioned photographs, explains the living habits, environment, and identifying characteristics of bears, pandas, and raccoons.

Behavior of simple animals (Filmstrip) Curriculum Films, 1951.
25 fr., color, 35 mm. (Behavior of animals and plants series)
Eastman color.
With teacher's manual.
Summary: Shows that simple microscopic animals have the same fundamental patterns of behavior that are seen throughout the animal kingdom.

Billy Beaver (Filmstrip) Curriculum Films, 1951.
25 fr., color, 35 mm. (Animals of the friendly forest series)
Eastman color.
With teacher's manual.
Summary: Shows how Billy and Jane Beaver construct a dam and build a snug lodge with an underwater entrance.

Bird studies from coast to coast (Filmstrip) Long Film Slide Service. Released by Society for Visual Education and Long Film Slide Service, 1947.
25 fr., b&w, 35 mm. (Nature study illustrated. Bird and insect series)
With manual.
Summary: Illustrates characteristics and activities of birds. Includes the hawk, shrike, owl, tern, gull, killdeer, meadowlark, night hawk, dove, barnard hawk, hummingbird, and others. For intermediate grades and high school.

Birds (Filmstrip) Curriculum Films, 1950.
25 fr., color, 35 mm. (Animal life series)
Eastman color.
With teacher's manual.
Summary: Describes the chief characteristics of birds. Presents chickens as typical birds to show how eggs are laid, incubated, and hatched, and how birds grow. For primary grades.

Birds and their nests (Filmstrip) Long Film Slide Service. Released by Society for Visual Education and Long Film Slide Service, 1947.
25 fr., b&w, 35 mm. (Nature study illustrated. Bird and insect series)
With manual.
Summary: Illustrates the nesting habits of some common birds. Includes nests of the killdeer, night hawk, dove, owl, meadowlark, blackbird, shrike, woodpecker, cliff swallow, eagle, and others. For intermediate grades and high school.

Birds' nests (Filmstrip) Jam Handy Organization, 1946.
67 fr., b&w, 35 mm. (Basic bird study, no. 3)
With teacher's manual.
Summary: Explains why, where, and how birds build nests. Points out how to find nests for observation.

Birds of forest and woodland (Filmstrip) John A. Haezler. Released by Encyclopedia Britannica Films, 1953.
60 fr., color, 35 mm. (Audubon's birds of America)
Eastman color.
Revised version of the 1940 filmstrip.
Produced in cooperation with the American Museum of Natural History, New York.
Summary: A study of bird life is presented in captioned reproductions of Audubon's bird pictures. Photographs of representative natural habitats are included.

Birds of harbor and seashore (Filmstrip) John A. Haezler. Released by Encyclopedia Britannica Films, 1953.
60 fr., color, 35 mm. (Audubon's birds of America)
Eastman color.
Produced in cooperation with the American Museum of Natural History, New York.
Summary: A study of bird life is presented in captioned reproductions of Audubon's bird pictures. Photographs of representative natural habitats are included.

Birds of our ponds and marshes (Filmstrip) Society for Visual Education, 1954.
40 fr., color, 35 mm. (Birds, how they live and help us)
Summary: Discusses birds which find their preferred kind of food, shelter, and nesting place in a pond-and-marsh habitat. Presents an account of the different kinds of nests used by various birds and the various means employed by birds in securing food.

Birds of the countryside (Filmstrip) John A. Haezler. Released by Encyclopedia Britannica Films, 1953.
58 fr., color, 35 mm. (Audubon's birds of America)
Eastman color.
Produced in cooperation with the American Museum of Natural History, New York.
Summary: A study of bird life is presented in captioned reproductions of Audubon's bird pictures. Photographs of representative natural habitats are included.

Birds of the forest and its borders (Filmstrip) Society for Visual Education, 1954.
45 fr., color, 35 mm. (Birds, how they live and help us)
Summary: Describes the birds of the forest and its borders according to their evolutionary development; discusses game birds and other forest birds in regard to their nesting and feeding preferences and identifying characteristics.

Birds of the gardens (Filmstrip) John A. Haezler. Released by Encyclopedia Britannica Films, 1953.
57 fr., color, 35 mm. (Audubon's birds of America)
Eastman color.
Produced in cooperation with the American Museum of Natural History, New York.
Summary: A study of bird life is presented in captioned reproductions of Audubon's bird pictures. Photographs of representative natural habitats are included.

Birds of the ocean, its beaches and salt marshes (Filmstrip) Society for Visual Education, 1954.
45 fr., color, 35 mm. (Birds, how they live and help us)
Summary: Discusses the nesting and eating habits of birds of the ocean; includes an account of the distinguishing characteristics peculiar to each bird; explains the delicate balance of nature as illustrated by the important part these birds play in maintaining a rich life in ocean waters while they, themselves, are largely fish-eaters.

Birds of the zoo (Filmstrip) Curriculum Films, 1951.
25 fr., color, 35 mm. (Nature study stories)
Eastman color.
Revised version of the 1940 filmstrip.
With teacher's manual.
Summary: Peter Pelican tells about his friends in the zoo—the other large birds. Sequences on wings, legs, necks, and feathers show the wide variety of bird adaptations. For primary grades.

Birds of villages and towns (Filmstrip) John A. Haezler. Released by Encyclopedia Britannica Films, 1953.
57 fr., color, 35 mm. (Audubon's birds of America)
Eastman color.
Produced in cooperation with the American Museum of Natural History, New York.
Summary: A study of bird life is presented in captioned reproductions of Audubon's bird pictures. Photographs of representative natural habitats are included.

Birds that live near people (Filmstrip) Society for Visual Education, 1954.
41 fr., color, 35 mm. (Birds, how they live and help us)
Summary: Discusses the nesting places of familiar birds, including those at such places as baseball diamonds and golf courses. Describes the identifying characteristics of these birds, their eating habits, and the ways in which they assist man.

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Birds; their value to agriculture (Filmstrip) U. S. Dept. of Agriculture with the cooperation of U. S. Fish and Wildlife Service, 1947.
61 fr., color, 35 mm.
With teacher's manual.
Summary: Explains life and habits of birds and their economic value due to their use of insects as food. Shows provisions for protection and emergency feeding of birds.
— Another issue.

Body covering (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal protection series)
Eastman color.
With teacher's manual.
Summary: Shows the variety of body coverings that protect animals in their environments, as illustrated by fish, mammals, birds, and reptiles.

Burrows (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal houses series)
Eastman color.
With teacher's manual.
Summary: Shows the different classes of animals that burrow their homes; points out the great ingenuity of such construction, and explains that burrowing animals generally live in family groups.

Butterflies and moths (Filmstrip) Eye Gate House, 1955.
25 fr., color, 35 mm. (The world of insects, no. 1)
With teacher's manual.
Summary: Describes the life cycle of butterflies and moths, and illustrates various types of each, such as the viceroy butterfly, the Luna moth, etc.

Butterflies and moths (Filmstrip) Long Filmmade Service.
Released by Society for Visual Education and Long Filmmade Service, 1947.

42 fr., color, 35 mm. (Nature study illustrated. Bird and insect series)
With manual.
Summary: Gives the identifying characteristics of moths and butterflies in general, as well as specific information about several well-known moths and butterflies; and describes various stages in the life cycle of each. For intermediate grades and high school.

Care of animals (Filmstrip) Eye Gate House, 1951.

25 fr., color, 35 mm. (Animals and their ways)
With teacher's manual.
Summary: Explains how to take care of animals—keep them clean, keep their cages or home clean, and feed them properly.

Cats (Filmstrip) Curriculum Films, 1950.

25 fr., color, 35 mm. (Animal life series)
Eastman color.
With teacher's manual.
Summary: Describes the chief characteristics and habits of cats—their playfulness, curiosity, cleanliness, and agility. Demonstrates the proper care of cats as pets. For primary grades.

Cats and dogs (Filmstrip) Society for Visual Education, 1952.

46 fr., color, 35 mm. (Animals of the world: Mammal set)
Summary: Through captioned photographs, explains the living habits, environment, and identifying characteristics of cats and dogs, and their usefulness to man.

Caves (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal houses series)
Eastman color.
With teacher's manual.
Summary: Shows that caves or dens are used by many animals as a protection against the elements at night, for raising young, or as a sheltered place in which to build a nest.

The children's zoo (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Fun for children series)
Eastman color.
Revised version of the 1948 filmstrip.
With teacher's manual.
Summary: Depicts children feeding and playing with the animals in a children's zoo. Shows a kid's lamb, a piglet, a sheep, a duck, a flamingo, and a goat. For primary grades.

Chordates (Filmstrip) McGraw-Hill Book Co., 1953. Made by Photo and Sound Productions.

29 fr., color, 35 mm. (Zoology series. Set no. 2)
Correlated with the textbook General zoology, by Tracy I. Storer.
Summary: Captioned drawings and photographs are used to show the anatomy and development of lower chordates and distinguishing characteristics of invertebrates, lower chordates, and vertebrates.

Class Crustacea: Crustaceans (Filmstrip) McGraw-Hill Book Co., 1953. Made by Photo and Sound Productions.

33 fr., color, 35 mm. (Zoology series. Set no. 7)
Correlated with the textbook General zoology, by Tracy I. Storer.
Summary: Captioned drawings and photographs are used to show the anatomy, mode of life, and development of various crustaceans, with emphasis on the lobster, the crab, and the barnacle.

Class Insecta: Insects (Filmstrip) McGraw-Hill Book Co., 1953. Made by Photo and Sound Productions.

34 fr., color, 35 mm. (Zoology series. Set no. 2)
Correlated with the textbook General zoology, by Tracy I. Storer.
Summary: Shows in detail the anatomy of the grasshopper and the behavior of the honey bee. Compares the wing structure, mouth parts, habitat, and development of various orders. Captioned drawings and photographs.

Cooperation among plants and animals, pt. B: Protecting plants and animals (Filmstrip) Charles Scribner's Sons, 1954.

30 fr., color, 35 mm.
Eastman color.
With teaching guide.
Correlated with Book 7 of The wonderworld of science, by Warren Root and others.
Summary: Discusses various ways in which man protects plants and animals. Describes procedures used to protect and propagate shrubs and fish in inland waters, explains the conservation practices and the use of game preserves in the winter. Emphasizes the necessity for protecting forest resources by reforestation, forest fire control, and scientific cutting of timber. Illustrates methods used to destroy insects which are harmful to plants.

Cows (Filmstrip) Curriculum Films, 1950.

25 fr., color, 35 mm. (Animal life series)
Eastman color.
With teacher's manual.
Summary: Depicts the daily life of the dairy cow, showing that the cow's care includes good food, water, rest, and clean surroundings. Points out that good care leads to the production of healthy milk and milk products. For primary grades.

Crocodilians and turtles (Filmstrip) Society for Visual Education, 1952.

41 fr., color, 35 mm. (Animals of the world: Reptile set)
Summary: Through captioned photographs, explains the living habits, environment, and identifying characteristics of crocodilians and turtles.

Desert animal life (Filmstrip) Pat Dowling Pictures, 1955.

34 fr., color, 35 mm.
Anaco color.
Summary: Captioned photographs of animal life on the desert include views of the kangaroo rat, antelope, ground squirrel, rabbit, quail, desert kit fox, diamond-backed rattlesnake, Gila monster, tarantula, scorpion, tarantula spider, owl, Gambel quail, roadrunner, and cactus wren.

Echinoderms (Filmstrip) McGraw-Hill Book Co., 1953. Made by Photo and Sound Productions.

28 fr., color, 35 mm. (Zoology series. Set no. 3)
Correlated with the textbook General zoology, by Tracy I. Storer.
Summary: A study of representative members, anatomy, and development of the five classes of Echinodermata, with emphasis on Asteria. Captioned drawings and photographs.

Fish (Filmstrip) Curriculum Films, 1950.

27 fr., color, 35 mm. (Animal life series)
Eastman color.
With teacher's manual.
Summary: Using a goldfish as an example, explains how fish breathe and eat in the water, how they balance and swim, etc. For primary grades.

Flatworms (Filmstrip) McGraw-Hill Book Co., 1953. Made by Photo and Sound Productions.

29 fr., color, 35 mm. (Zoology series. Set no. 1)
Correlated with the textbook General zoology, by Tracy I. Storer.
Summary: Captioned drawings and photographs are used to present a study of three classes of Platyhelminthes: the anatomy of Turbellaria, represented by Planaria; the anatomy and life cycle of representative Trematodes; and the anatomy and life cycle of representative Cestodes.

Fresh-water shell fish and amphibians (Filmstrip) Jam Handy Organization, 1948.

70 fr., color, 35 mm. (Water life series, no. 3)
With teacher's guide-index.
Summary: Introduces fresh-water mollusks and crayfish, and shows the life cycles and habits of frogs and other common amphibians.

Fresh-water turtles and fish (Filmstrip) Jam Handy Organization, 1948.

65 fr., color, 35 mm. (Water life series, no. 4)
With teacher's guide-index.
Summary: Presents some of the turtles and fish of North America; explains their habits, and importance to man, and, through captioned drawings, shows their structure.

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Glider, the flying squirrel (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animals of the friendly forest series)
Eastman color.
With teacher's manual.
Summary: Shows how Glider, a flying squirrel, helps his friends to get nuts from a hickory tree after it has been made inaccessible to them by Billy Beaver's pond.

Helping the birds (Filmstrip) Jam Handy Organization, 1950.

81 fr., color, 35 mm. (Basic bird study, no. 6)
With teacher's guide-index.
Summary: A discussion of bird conservation in three units: why birds need help, how we can help birds, and suggestions for bird homes.

Hollow trees (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal houses series)
Eastman color.
With teacher's manual.
Summary: Describes the variety of animals that make their homes in hollow trees, either chipping a hole for an entrance, or using a knot-hole or crevice.

The honey bee (Filmstrip) Eye Gate House, 1955.

25 fr., color, 35 mm. (The world of insects, no. 2)
With teacher's manual.
Summary: Illustrates the habits of the honey bee and discusses the economic importance of the bee. Depicts the specific job of each bee, including the queen bee, the drone, and the worker bee.

The house fly and its relatives (Filmstrip) Eye Gate House, 1955.

25 fr., color, 35 mm. (The world of insects, no. 9)
With teacher's manual.
Summary: Explains that the house fly breeds germs and causes diseases such as typhoid. Illustrates the various relatives of the house fly, including the Tsetse fly, fruit fly, and the midge fly, and discusses the harmfulness of each.

Household pests (Filmstrip) Eye Gate House, 1955.

25 fr., color, 35 mm. (The world of insects, no. 3)
With teacher's manual.
Summary: Shows the various types of insects that may be found around the home, such as the roach, silverfish, moth, and carpet bug. Describes the damage they do and explains why they are termed pests.

How amphibians get their food (Filmstrip) Curriculum Films, 1951.

20 fr., color, 35 mm. (How animals get their food series)
Eastman color.
With teacher's manual.
Summary: Discusses the food-getting methods of amphibians on land, in trees, and in the water.

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How animals get air (Filmstrip) Long Filmlids Service. Released by Society for Visual Education and Long Filmlids Service, 1947.

25 fr., color, 35 mm. (Nature study illustrated. Animal series)
With manual.
Summary: Describes air breathing animals (earthworms), animals which must rely on gills (fish), and animals which have lungs (frogs and snakes). For intermediate grades and high school.

How animals get food (Filmstrip) Long Filmlids Service. Released by Society for Visual Education and Long Filmlids Service, 1947.

31 fr., b&w, 35 mm. (Nature study illustrated. Animal series)
With manual.
Summary: Discusses the various methods employed in eating by the moth, dragon fly, termite, beetle, snake, vulture, gull, squirrel, rat, fox, deer, and others. For intermediate grades and high school.

How animals grow up (Filmstrip) Long Filmlids Service. Released by Society for Visual Education and Long Filmlids Service, 1947.

31 fr., b&w, 35 mm. (Nature study illustrated. Animal series)
With manual.
Summary: Tells the stages of metamorphosis in such animals as the katydid, water beetle, caterpillar, fly, and others. For intermediate grades and high school.

How animals live in fresh water (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal environments series)
Eastman color.
With teacher's manual.
Summary: Explains the interrelation of animals living in the same environment—fish, snails, frogs, turtles, etc.

How animals live in the air (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal environments series)
Eastman color.
With teacher's manual.
Summary: Explains how animals use the force and lifting power of air in order to move freely. Describes the wings of birds, insects, and bats as adaptations for flight.

How animals live in the Arctic (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal environments series)
Eastman color.
With teacher's manual.
Summary: Shows animals which live in the Arctic all year, and others which are there in summer only.

How animals live in the desert (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal environments series)
Eastman color.
With teacher's manual.
Summary: Shows many kinds of animals that live in the desert, and points out that they are specially suited to survive hot days, cold nights, and scarcity of water.

How animals live in the forest (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal environments series)
Eastman color.
With teacher's manual.
Summary: Shows that forest animals are suited for life in thick woods, and able to exist on the food that they find there.

How animals live in the grasslands (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal environments series)
Eastman color.
With teacher's manual.
Summary: Shows that coloration to blend with the background, ability to run fast, the use of horns and feet for defense, and living together in herds or colonies protect "plant eaters" from "meat eaters."

How animals live in the sea (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal environments series)
Eastman color.
With teacher's manual.
Summary: Shows animals which live in the sea's three life zones (the shore, tidal zone, and open sea) and points out their special adaptations for survival.

How animals live in the swamps (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal environments series)
Eastman color.
With teacher's manual.
Summary: Explains that a swamp is made up of low, damp ground and shallow, sluggish water. Shows that swamp animals are at home both on land and in the water, and feed either on plant life or on other animals.

How animals protect themselves (Filmstrip) Long Filmlids Service. Released by Society for Visual Education and Long Filmlids Service, 1947.

30 fr., b&w, 35 mm. (Nature study illustrated. Animal series)
With manual.
Summary: Tells how frogs, tortoises, rabbits, crayfish, caterpillars, snakes, and other animals are protected by nature with such things as legs, hard shells, color, and poisons. For intermediate grades and high school.

How animals reproduce themselves (Filmstrip) Long Filmlids Service. Released by Society for Visual Education and Long Filmlids Service, 1947.

25 fr., b&w, 35 mm. (Nature study illustrated. Animal series)
With manual.
Summary: Tells of the fertilization of egg cell by the sperm and the various methods animals use for storage of the eggs. For intermediate grades through high school.

How birds get their food (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (How animals get their food series)
Eastman color.
With teacher's manual.
Summary: Discusses the diversity of food-getting adaptations of birds in relation to the kind of food they eat, and shows how they get their food.

How birds serve man (Filmstrip) Jam Handy Organization, 1946.

67 fr., b&w, 35 mm. (Basic bird study, no. 5)
With teacher's guide-index.
Summary: Discusses the economic importance of birds in destroying insects and in other ways; describes the benefits of "harmful birds."

How fish get their food (Filmstrip) Curriculum Films, 1951.

29 fr., color, 35 mm. (How animals get their food series)
Eastman color.
With teacher's manual.
Summary: Shows how the adaptations of fish for getting food depend upon where they feed and what they eat.

How insects get their food (Filmstrip) Curriculum Films, 1951.

29 fr., color, 35 mm. (How animals get their food series)
Eastman color.
With teacher's manual.
Summary: Shows how insects get their food by chewing or biting, and by sucking.

How living things respond (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Behavior of animals and plants series)
Eastman color.
With teacher's manual.
Summary: Shows that all living things respond to the stimuli of immediate situations.

How mammals get their food (Filmstrip) Curriculum Films, 1951.

37 fr., color, 35 mm. (How animals get their food series)
Eastman color.
With teacher's manual.
Summary: Shows the special food-getting adaptations of mammals (carnivores, herbivores, and insectivores) that live on land, sea, and in the air.

How reptiles get their food (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (How animals get their food series)
Eastman color.
With teacher's manual.
Summary: Shows the variety of food-getting adaptations of the four main groups of reptiles—snakes, lizards, crocodiles, and turtles.

Insect communities (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal house series)
Eastman color.
With teacher's manual.
Summary: Studies insect communities to illustrate the high degree of specialization needed and supplied for the survival of all members of an animal community.

Insect friends and enemies (Filmstrip) Popular Science Pub. Co., 1954.

45 fr., color, 35 mm. (Nature study)
Anno color.
With teacher's guide.
Summary: Teaches the importance of insects to man as sources of food, as aids in the propagating of plants, and as carriers of disease. Traces the life cycle of the monarch butterfly, the housefly, and the mosquito. Stresses the fact that all insects go through the egg, larval, pupal, and adult stages. Captioned drawings and photographs.

Insect life histories (Filmstrip) Long Filmlids Service. Released by Society for Visual Education and Long Filmlids Service, 1947.

32 fr., b&w, 35 mm. (Nature study illustrated. Bird and insect series)
With manual.
Summary: Describes the life cycles of the box elder bug, milkweed bug, cicada, water bug, ladybird, termite, dragon fly, beetle, crane fly, butterfly, and others. For intermediate grades and high school.

Insects and their way of life (Filmstrip) Eyo Gale House, 1951.

26 fr., color, 35 mm. (Animals and their ways)
With teacher's manual.
Summary: Shows that some insects are harmful while others are beneficial, and points out the difference between spiders and insects.

Insects and their ways (Filmstrip) Society for Visual Education and Row, Peterson, 1951.

46 fr., color, 35 mm. (Plants, animals, and insects)
With manual.
Correlated with the text of the same title by Bertha Morris Parker.

Insects that destroy plants (Filmstrip) Eyo Gale House, 1955.

25 fr., color, 35 mm. (The world of insects, no. 3)
With teacher's manual.
Summary: Describes the particular insects noted for doing damage to plants and crops, such as the locust, pest caterpillar, boll weevil, codling moth, etc., and illustrates methods used in destroying these insects.

Jimmy Raccoon (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animals of the friendly forest series)
Eastman color.
With teacher's manual.
Summary: A story in which Jimmy Raccoon learns not to bother snakes, and not to steal from other animals.

John James Audubon, artist and naturalist (Filmstrip) John A. Hensler. Released by Encyclopedia Britannica Films, 1953.

64 fr., color, 35 mm. (Audubon's birds of America)
Eastman color.
Produced in cooperation with the American Museum of Natural History, New York.
Summary: Captioned pictures tell the story of Audubon's life. Explains how he turned from a career in law to the study and painting of birds. Describes the difficulties he encountered before gaining acceptance for his work. Includes a selection of his animal and bird pictures.

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Keeping an aquarium (Filmstrip) Jan Handy Organization, 1948.

10 ft., color, 35 mm. (Water life series, no. 3)
With teacher's manual.
Summary: Directions for preparing and maintaining a balanced aquarium, with specific suggestions for the selection of suitable plants and animals.

Large, hooded mammals (Filmstrip) Society for Visual Education, 1952.

45 ft., color, 35 mm. (Animals of the world: Mammal set)
Summary: Through captured photographs, explains the living habits, environment, and identifying characteristics of large, hooded mammals, and shows how animals are useful to man.

Life in ponds, lakes, and streams (Filmstrip) Jan Handy Organization, 1948.

30 ft., color, 35 mm. (Water life series, no. 1)
With teacher's guidebook.
Summary: Presents the forms of life commonly found in bodies of fresh water, and discusses the importance of fresh-water plants.

Insects of the world (Filmstrip) Society for Visual Education, 1952.

45 ft., color, 35 mm. (Animals of the world: Insect set)
Summary: Through captured photographs, shows the living habits, environment, and identifying characteristics of insects.

Lodges (Filmstrip) Curriculum Films, 1952.

25 ft., color, 35 mm. (Animal life series)
Explanatory color.
With teacher's manual.
Summary: Emphasizes the intelligence shown by animals that use their bodies, pointing out that their structures are not merely put together, but shaped by different forces.

Looking for animals (Filmstrip) Curriculum Films, 1950.

35 ft., color, 35 mm. (Animal life series)
Explanatory color.
With teacher's manual.
Summary: Encourages children to look for animals wherever they see, as an example shows a young boy finding toads, amphibians, and insects in his yard.

How tide at the beach (Filmstrip) Curriculum Films, 1952.

35 ft., color, 35 mm. (Nature study series)
Explanatory color.
With teacher's manual.
Summary: Explains that when the tide is out, many sea animals can be found in the tide pool, and shows crabs, snails, starfish, and small fish. Shows two children who play at the beach. For primary grades.

Mammals of North America (Filmstrip) Curriculum Films, 1950.

25 ft., color, 35 mm. (Animal life series)
Explanatory color.
With teacher's manual.
Summary: After a brief review of the animal kingdom, defines a mammal in simple terms, and shows the diversity of mammals in North America: large and small, wild and tame, plant eaters and flesh eaters, etc. Emphasizes the relationship between mammals and man. For primary grades.

Melvin Otter (Filmstrip) Curriculum Films, 1951.

25 ft., color, 35 mm. (Animals of the friendly forest series)
Explanatory color.
With teacher's manual.
Summary: Melvin Otter and his son, Rocky, build a slide on a slidebook with Billy Beaver's help, and have fun sliding into the water.

Metamorphosis (Filmstrip) Life, 1953. Produced under the direction of Carroll Williams.

45 ft., color, 35 mm.
Explanatory color.
With teacher's manual.
Based on an article entitled Why insects change form, which appeared in Life, Feb. 11, 1952.
Summary: Photographs of three stages of insect development: the spectacular metamorphosis of the Colorado tickler, the less spectacular metamorphosis of the house fly, and the growth without metamorphosis of the silkworm. Includes Dr. Carroll Williams' explanation of the reasons for insect growth, his research on the function of specific hormones, and his discovery of cyclosporin, a substance which controls growth.

The migration of birds (Filmstrip) Jan Handy Organization, 1948.

45 ft., color, 35 mm. (Basic bird study, no. 4)
With teacher's guidebook.
Summary: Discusses how and why birds migrate.

The migration of birds (Filmstrip) Society for Visual Education, 1954.

45 ft., color, 35 mm. (Birds, how they live and help us)
Summary: Explaining with the suggestions surrounding bird migration, discusses the inherent dangers of migration, the different types of migration, and the various means that have been employed to learn of these migrations.

Mollusks (Filmstrip) McGraw-Hill Book Co., 1951. Made by Photo and Sound Productions.

30 ft., color, 35 mm. (Living series, set no. 1)
Explanatory color.
Summary: A study of the anatomy, environment, and habits of the five classes of mollusks. Captured drawings and photographs.

The mosquito (Filmstrip) Eye Gate House, 1953.

25 ft., color, 35 mm. (The world of insects, no. 7)
Explanatory color.
With teacher's manual.
Summary: Depicts the various kinds of mosquitoes and explains how they spread disease. Shows how mosquitoes are destroyed and how the U. S. War Reliance experiment to grow the natural mosquito spread, yellow fever.

Needles Pericarp (Filmstrip) Curriculum Films, 1951.

25 ft., color, 35 mm. (Animals of the friendly forest series)
Explanatory color.
With teacher's manual.
Summary: Needles Pericarp is lonely because his spines keep other animals away, but he comes to realize that the spines are his best protection.

Nests (Filmstrip) Curriculum Films, 1952.

25 ft., color, 35 mm. (Animal homes series)
Explanatory color.
With teacher's manual.
Summary: Explains that nests of different types are built for egg-laying and the care of the young, and describes the various materials and materials used for making nests in different locations.

Nonpoisonous snakes of the U. S. (Filmstrip) Society for Visual Education, 1952.

45 ft., color, 35 mm. (Animals of the world: Reptile set)
Summary: Through captured photographs, shows the living habits, environment, and identifying characteristics of nonpoisonous snakes in the U. S.

Odd insects the world over (Filmstrip) Eye Gate House, 1953.

25 ft., color, 35 mm. (The world of insects, no. 4)
With teacher's manual.
Summary: Shows insects found throughout the world, such as the water bug, many leaf miner, Hercules beetle, giant beetle, flying stick, etc., and tells why they are so named.

On the farm with Tom and Susan series (Filmstrip) Popular Science Pub. Co., Audio-Visual Division, 1946.

45 ft., color, 35 mm.
With teacher's guide.
Summary: Two primary grade children, while spending a summer vacation in the country, learn about farming life.
Contents: 1. Visiting the farm. 40 ft. 2. Animals and their young. 25 ft. 3. How plants live and grow. 25 ft. 4. Animal homes. 25 ft. 5. Tools and simple machines. 40 ft. 6. Science review. 35 ft.

Phyla Porifera and Coelenterata: Sponges and coelenterates (Filmstrip) McGraw-Hill Book Co., 1951. Made by Photo and Sound Productions.

25 ft., color, 35 mm. (Living series, set no. 1)
Summary: Captured drawings and photographs are used to present a detailed study of the history of sponges as representatives of phyla Porifera. Includes also the anatomy, life cycle, and habitat of representative members of the three classes of coelenterates.

Plants and strange animals of the sea (Filmstrip) Jan Handy Organization, 1948.

45 ft., color, 35 mm. (Water life series, no. 6)
With teacher's guidebook.
Summary: Presents some plants and animals of the sea, and explains their value to man.

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Poisonous snakes of the U. S. (Filmstrip) Society for Visual Education, 1952.

25 ft., color, 35 mm. (Animals of the world: Reptile set)
Summary: Through captured photographs, shows the living habits, environment, and identifying characteristics of poisonous snakes in the U. S.

Primates: Monkeys and their relatives (Filmstrip) Society for Visual Education, 1952.

25 ft., color, 35 mm. (Animals of the world: Mammal set)
Summary: Through captured photographs, shows the living habits, environment, and identifying characteristics of monkeys and their relatives.

Protective behavior (Filmstrip) Curriculum Films, 1951.

25 ft., color, 35 mm. (Animal protection series)
Explanatory color.
With teacher's manual.
Summary: Shows that an animal relies on its senses to warn it of an attack and to enable it to make defensive moves.

Protective coloring (Filmstrip) Curriculum Films, 1951.

25 ft., color, 35 mm. (Animal protection series)
Explanatory color.
With teacher's manual.
Summary: Explains the basic elements of protective coloring through a discussion of cryptic color, mimic, light-reflecting ability, counter-shading, and disruptive coloring.

Protective weapons (Filmstrip) Curriculum Films, 1951.

25 ft., color, 35 mm. (Animal protection series)
Explanatory color.
With teacher's manual.
Summary: Explains the various means of non-defensive animals on fight for escape, and shows the range of protective weapons of various animals.

Performances (Filmstrip) McGraw-Hill Book Co., 1952. Made by Photo and Sound Productions.

35 ft., color, 35 mm. (Dance series, set no. 1)
Explanatory color.
Summary: The acrobatic and behavior of the five classes of grasshoppers are illustrated, with emphasis on jumping, running, jumping, and performing. Captured drawings and photographs.

Rabbits (Filmstrip) Curriculum Films, 1950.

25 ft., color, 35 mm. (Animal life series)
Explanatory color.
With teacher's manual.
Summary: Presents rabbits as typical mammals, and shows their habits in the wild state. A young boy demonstrates how to care for his pet rabbit, feeds it, gives it exercise, and picks it up carefully to play with it. For primary grades.

ZOOLOGY

Reptiles (Filmstrip) Curriculum Films, 1950.

27 fr., color, 35 mm. (Animal life series)
Eastman color.
With teacher's manual.
Summary: Introduces snakes, lizards, turtles, and alligators. Emphasizes the similarities between all reptiles and the differences within a species, through comparing their external appearance, habits, and habits. Photographed at the Bronx Zoo, New York City. For primary grades.

Rodents (Filmstrip) Society for Visual Education, 1952.

44 fr., color, 35 mm. (Animals of the world: Mammal set)
Summary: Through captioned photographs, explains the living habits, environment, and identifying characteristics of rodents.

Roundworms (Filmstrip) McGraw-Hill Book Co., 1953.

Made by Photo and Sound Productions.
24 fr., b&w, 35 mm. (Zoology series. Set no. 1)
Correlated with the textbook General zoology, by Tracy I. Storer.
Summary: Captioned drawings and photographs are used in presenting the life cycle and anatomy of representative roundworms including Ascaris, Trichinella, and other parasitic worms.

Rudy and Trudy Bear (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animals of the friendly forest series)
Eastman color.
With teacher's manual.
Summary: A story in which some playful bear cubs get into mischief and have adventures with a porcupine, a frog, and a nest of beehives.

Segmented worms (Filmstrip) McGraw-Hill Book Co., 1953.

Made by Photo and Sound Productions.
28 fr., b&w, 35 mm. (Zoology series. Set no. 2)
Correlated with the textbook General zoology, by Tracy I. Storer.
Summary: A study of the anatomy, reproduction, and behavior of various classes of annelids, with emphasis on Lumbricus and Nereis. Captioned drawings and photographs.

Shellfish of the seashore (Filmstrip) Jam Handy Organization, 1948.

67 fr., color, 35 mm. (Water life series, no. 7)
With teacher's guide-index.
Summary: Shows shells common to sea beaches, and discusses in detail the habits of seashore shellfish captured by man for food. Includes clams, oysters, mussels, lobsters, shrimp, and crabs.

Small fresh-water animals and insects (Filmstrip) Jam Handy Organization, 1948.

60 fr., color, 35 mm. (Water life series, no. 2)
With teacher's guide-index.
Summary: Illustrates tiny water animals as they appear through the microscope and reading glass, and shows the life cycles of several water insects.

Snakes (Filmstrip) Curriculum Films, 1950.

27 fr., color, 35 mm. (Animal life series)
Eastman color.
With teacher's manual.
Summary: Discusses poisonous and non-poisonous snakes, their skin and eyes. Explains how snakes move, and how they help farmers. Photographed at the Bronx Zoo, New York City. For primary grades.

Snakes outside of the U. S. (Filmstrip) Society for Visual Education, 1952.

38 fr., color, 35 mm. (Animals of the world: Reptile set)
Summary: Through captioned photographs, shows the living habits, environment, and identifying characteristics of snakes outside the U. S.

Some useful insects (Filmstrip) Eyo Gate House, 1955.

25 fr., color, 35 mm. (The world of insects, no. 6)
With teacher's manual.
Summary: Explains that various insects are helpful to man, and shows the silk worm, praying mantis, ground beetle, ant lion, and others.

The structure of birds (Filmstrip) Jam Handy Organization, 1948.

56 fr., b&w, 35 mm. (Basic bird study, no. 1)
With teacher's guide-index.
Summary: Explains three units that render birds suited for flight: the streamlined body, the covering of feathers, and the wings and tail.

The trap door spider (Filmstrip) Allen and Allen Motion Picture Production, 1951.

Sound, 8 min., b&w, 35 mm.
Summary: Life habits of trap-door spider; architect, excavator, builder, mason, silk weaver.

The turtles (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Nature study stories)
Eastman color.
Revised version of the 1946 filmstrip.
With teacher's manual.
Summary: When two children find a box turtle and a wood terrapin, they examine them carefully for differences and similarities, noting protective coloration and the use of their shells for defense. For primary grades.

Understanding snakes (Filmstrip) Audio-Visual Materials Consultation Bureau, Wayne University, 1952.

29 fr., b&w, 35 mm.
With discussion guide.
Summary: Illustrates simple cage building and the care and feeding of some common snakes, with suggestions for field trips.

Using protective coloring (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animal protection series)
Eastman color.
With teacher's manual.
Summary: Explains the importance of protective coloring to animals, especially those without other means of defense, and shows how animals utilize this defense by remaining motionless.

We protect animals (Filmstrip) Eyo Gate House, 1951.

26 fr., color, 35 mm. (Animals and their ways)
With teacher's manual.
Summary: Describes the Government measures to protect wild life—laws, refuges, and national parks.

ZOOLOGY

What animals give man (Filmstrip) Popular Science Pub. Co., 1954.

48 fr., color, 35 mm. (Nature study)
Anaco color.
With teacher's guide.
Summary: Elementary school children who visit a farm learn that domestic animals and birds provide man with meat, milk, dairy products, gasoline, and other foods, as well as leather, feathers, clothing, medicine, vitamins, serum, and vaccines. Captioned drawings and photographs.

Woody Woodpecker (Filmstrip) Curriculum Films, 1951.

25 fr., color, 35 mm. (Animals of the friendly forest series)
Eastman color.
With teacher's manual.
Summary: The story of how three little woodpeckers hatch, grow up, and are taught to fly by their parents.

SOURCES

ASA.

Allen and Allen Motion Picture Production, 3947 W. 59th Place, Los Angeles 43, California.

Allen and Allen produce and distribute documentary and educational films. All inquiries should be addressed as above.

AACP.

American Association of Colleges of Pharmacy, University of Michigan, Ann Arbor, Michigan.

The American Association of Colleges of Pharmacy Committee on Audio Visual Aids sponsored the film "The Manual Preparation of Tablet Triturates" listed in this publication for the instruction of students in pharmacy. In the United States prints may be rented or purchased; for use abroad they must be purchased. All inquiries should be addressed to Sturgis-Grant Productions, Inc., 322 E. 44th Street, New York 17, New York.

AAOO.

American Academy of Ophthalmology and Otolaryngology, 100 First Avenue Building, Rochester, Minnesota.

The American Academy of Ophthalmology and Otolaryngology produced two films, "Embryology of the Eye" and "Embryology of the Ear", as teaching media for medical students, residents, practitioners, physiologists, psychologists, and as review films for eye, ear, nose and throat specialists. Slides and filmstrips are available to augment the films. All inquiries regarding the purchase of the films, slides and filmstrips should be addressed as above. Inquiries concerning loan of the films should be addressed to the American Medical Association, 535 North Dearborn Street, Chicago 10, Illinois.

Abarbanel.

A.R. Abarbanel, M.D., 6333 Wilshire Boulevard, Los Angeles 48, California.

Dr. Abarbanel made the film "Extra-peritoneal Cesarean Section" listed in this catalog to further surgical art. Prints are available in French and English. They may be purchased or borrowed by responsible groups legitimately interested in the content of the film. All inquiries should be addressed to A.R. Abarbanel, M.D., 6333 Wilshire Blvd., Los Angeles 48, California.

Abbott.

Abbott Laboratories, North Chicago, Illinois.

Abbott Laboratories, Manufacturing Pharmaceutical Chemists, make motion pictures on scientific, surgical and medical subjects in collaboration with such institutions as the Philadelphia Lying-in Hospital, where the film "Continuous Spinal Analgesia in Cesarean Section" listed in this catalog was produced.

Prints of such productions are loaned free of charge to members of the medical and allied professions. Inquiries concerning the film herein listed, and others of the same type, may be addressed as above, attention Advertising and Public Relations. Applications for the loan of prints may be made to the company's branches within the United States and in other countries around the world.

Acad.

Academy Films, 800 W. Seward St., Hollywood 38, California.

Academy Films produces motion pictures and filmstrips for classroom use. All inquiries from United States and abroad should be addressed as above.

ACC-LEDER.

American Cyanamid Company, Lederle Laboratories Division, 30 Rockefeller Plaza, New York 20, New York. (International Dept.)

The Lederle Division of the American Cyanamid Company uses films to disseminate results of its research into the effects of drugs and so to inform the public in their use. The Company's films are not for sale. They are obtainable abroad from its branch offices or representatives. All inquiries originating in the continental United States should be addressed as above.

ACS.

American Cancer Society, Inc., 47 Beaver Street, New York 4, New York.

The American Cancer Society, a nonprofit organization supported by voluntary contributions received from residents in the United States, Alaska, and Puerto Rico, exists to disseminate information on cancer and seeks especially to inform the public concerning symptoms of the disease and its successful treatment.

Although the Society limits its usual activities to the United States, Alaska, and Puerto Rico, requests from abroad for its materials may be met by special arrangements. Such inquiries should be addressed as above, attention Director of Public Education or to the Medical and Scientific Director. Domestic inquiries should be addressed to the nearest local division of the Society.

In addition to public education films, the Society also produces medical films jointly sponsored by the Society and the National Cancer Institute of the U. S. Public Health Service. These are intended for display before professional audiences only, as indicated in their entries in this catalog. "The Warning Shadow" was jointly sponsored by the Society and the National Cancer Institute. Prints of the medical diagnosis series of cancer films can be obtained abroad from the U. S. Public Health Service on application to the nearest diplomatic or consular office, or, as above indicated, from the American Cancer Society by

special arrangement. Prints may be purchased from the Society, address as above.

ADA.
American Dental Association, 222 East Superior Street, Chicago, Illinois.

Upon request the American Dental Association will review any dental health film for the purpose of evaluating the scientific accuracy of the dental content. The Association has discontinued its program of giving official approval to films. Free consultative service on films is offered to any producer. Applications for such reviews and service should be made to the Film Library, Bureau of Library and Indexing Service which also distributes technical and dental health films on a rental basis from the above address.

AETNA.
Aetna Casualty & Surety Company, Public Education Department, 151 Farmington Avenue, Hartford 15, Connecticut.

The Aetna Casualty & Surety Company produces films intended to help reduce accidents and to minimize the effects of those which occur. All inquiries should be addressed as above.

ALCOA.
Aluminum Company of America, 818 Alcoa Building, Pittsburgh 19, Pennsylvania.

The Aluminum Company of America produces and distributes motion pictures to acquaint the public with the work of the company and with the varied uses of its products. The films may be borrowed free of charge within the United States. All inquiries should be addressed as above, attention Motion Picture Section.

Allied.
Allegheny Ludlum Steel Corporation, 2020 Oliver Building, Pittsburgh 22, Pennsylvania.

The Allegheny Ludlum Steel Corporation makes motion pictures and maintains a library for their distribution as a public service to schools, business and industrial firms. The Corporation's films have special interest for designers, architects, metallurgists, engineers, buyers, manufacturers, classes in technology or vocational training. These productions are available on free loan within the United States. For use abroad prints must be purchased. All inquiries should be addressed as above, attention Advertising Department.

Allis.
Allis-Chalmers Manufacturing Company, Box 512, Milwaukee 1, Wisconsin.

The Allis-Chalmers Manufacturing Company makes and distributes films to show what mechanization and other improved methods, particularly in farm work, have contributed to productivity in the United States and so to improvement in general living standards.

In the United States, prints of the Company's productions may be borrowed free of charge. Inquiries should be addressed to the nearest Allis-Chalmers branch house. For use abroad, prints may be purchased or borrowed from nearest distributor of Allis-Chalmers Tractor and Farm Machinery or of Allis-Chalmers General Machinery in area wherein inquiry resides; or inquiries may be addressed as above, attention Exports Department.

Almanac.
Almanac Films, Inc., 516 Fifth Avenue, New York 36, New York.

Almanac Films makes available each year a studied program of educational films. For use within the United States, prints may be rented or purchased outright from local Almanac dealers or from New York headquarters. For use abroad prints may be purchased. All inquiries from abroad should be addressed as above.

Al-MO.
Allen-Moore Productions, Inc., 213 West Seventh Street, Los Angeles 14, California.

Allen-Moore Productions make films and filmstrips for educational and informational purposes. Teachers' guides are available for some of this corporation's productions. All inquiries should be addressed as above.

Altro.
Altro Health and Rehabilitation Services, Inc., 71 West 47th Street, New York 36, New York.

Altro Health and Rehabilitation Services, Inc., owns and operates the Altro Work Shops, the purpose and techniques of which are illustrated in the film entitled "Recovery" listed in this catalog. The Altro Work Shops, established in 1915, grew out of a study of graduates of sanatoria for patients with tuberculosis which disclosed that of patients discharged as improved, quiescent or arrested, 50% were worse or had died within six to eighteen months after discharge. These sheltered shops serve persons discharged from sanatoria, providing medically supervised programs designed to rehabilitate them, i.e., to enable them to become partially or wholly self-supporting, even to enter industry. These same services are now available to patients with cardiovascular diseases. The film above mentioned was made to publicize the work of the shops in order to increase the public understanding of the facts in the matter, thereby influencing employers to provide graduated work to individuals rehabilitated. Prints of the film may be rented within the United States, or borrowed free under certain conditions; for use abroad, prints may be purchased. All inquiries should be addressed as above.

AMA.
American Medical Association, 535 North Dearborn Street, Chicago 10, Illinois.

The American Medical Association maintains a Motion Picture Library from which

prints of medical, surgical and related films are loaned (within the United States) on service charge basis to medical societies, auxiliaries, medical schools and other scientific groups. Catalog of films in the Library available on request. Prints of these productions may also be purchased. Requests for their loan abroad will be met when circumstances permit. All inquiries should be addressed as above, attention Director, Committee on Motion Pictures and Medical Television.

AMANA.
American Management Association, 1515 Broadway, New York 36, New York.

American Management Association produced the filmstrip series entitled "Data and Decision: Using Electronic Computers in Business," to inform management and clerical personnel in offices of the implications and significance of the new electronic data processing systems to business organizations. The series is available by purchase only. All inquiries should be addressed as above.

AmISC.
American Institute of Steel Construction, Inc., 101 Park Avenue, New York 17, New York.

To organizations and responsible individuals legitimately interested in steel for building purposes, the American Institute of Steel Construction makes available (free of charge within the United States) a library of lantern slides and photographs illustrating all phases of bridge building and bridge construction during the last twenty five years. The institute also distributes free of charge to engineering schools, etc., a portfolio of 20 typical structural steel photographs prepared in portfolio form for the use of educators. Within the United States the institute loans prints of a number of motion pictures dealing with steel in buildings, among them "Build with Steel" listed in this publication. For use abroad prints of this film may be purchased at cost. All requests and inquiries should be addressed as above, attention Department of Educational Services.

AmO.
American Optical Company, Southbridge, Massachusetts.

The American Optical Company produced the film "Right on the Nose" listed in this catalog to instruct the public in practical methods of adjusting industrial safety goggles fitted with non-corrective lenses. All inquiries concerning it (and related printed matter which is available) should be addressed as above.

AmPetrol.
American Petroleum Institute, 50 West 50th Street, New York 20, New York.

The American Petroleum Institute produces films to remind the public of service to the community rendered by oil and oil producers

and distributors. These films are loaned free within the United States. They are obtainable on purchase for use abroad. The institute also distributes a catalog of motion pictures of general interest about petroleum, indicating from what sources they are available (loan, rent or sale, sometimes within restricted areas). All inquiries concerning the institute's films listed in this catalog should be addressed as above, attention Oil Industry Information Committee.

AMSTER.
American Sterilizer Company, Erie 6, Pennsylvania.

American Sterilizer Company, designers and manufacturers of sterilizers, tables and lights for the medical profession, made the film "Pressure Steam Sterilization" listed in this catalog for the Committee for Visual Instruction in Microbiology of the Society of American Bacteriologists. Script and technical direction by Dr. H. Horton of the University of Pennsylvania and J. J. Perkins, representing the company. Prints are available on loan, for display within the United States to students, nurses, laboratory technicians and public health workers. Requests for the loan of prints for use abroad will be considered. Prints may be purchased. All inquiries concerning the film should be addressed as above, attention Mr. Ralph J. Schlosser.

ARC.
The American National Red Cross, Washington, D. C.

The American National Red Cross produces and distributes modern pictures to inform the public of services rendered by this organization. Among these are instruction in accident prevention and emergency first aid. All inquiries for prints of these pictures wanted outside the United States should be addressed as above, or for use within the United States, prints may be borrowed or purchased of the nearest Red Cross Area Public Information Office.

ARF.
Arthritis and Rheumatism Foundation, 23 West 45th Street, New York 36, New York.

The Arthritis and Rheumatism Foundation made the motion picture entitled "Problems of Rheumatoid Arthritis" listed in this publication to help educate the lay and medical public in respect to those problems and present methods of therapy. In the United States prints are available on loan for display to appropriately interested groups on application to local chapters of the Foundation, or to the national office (as above). Responsible organizations abroad may inquire of that office concerning the possibility of borrowing prints.

ARTWIL.
Artwilt Company, 22 West 48th Street, New York 19, New York.

Artwilt Company has produced several motion

pictures and filmstrips intended for education of the dental patient. Within the United States the films are available from the library of the American Dental Association. For use abroad they may be purchased. Inquiries from abroad should be addressed to the Company.

ASM.
American Society for Metals, 7301 Euclid Avenue, Cleveland 3, Ohio.

The American Society for Metals, Subcommittee on Visual Education in cooperation with the Ohio State University Research Foundation is producing a series of films on metallic subjects of which "Metal Crystals" listed in this edition is the first. The Subcommittee also produced "Iron-Carbon Alloys" similarly here listed. In the United States prints of these productions are loaned to interested groups. For use abroad, prints are available on purchase. All inquiries should be addressed as above.

ASSOC.
Association Films, Inc., 347 Madison Avenue, New York 17, New York.

Association Films produces and distributes motion pictures intended to help youth in physical education, especially through sports, in health education, social behavior, emotional adjustment, intergroup understanding, etc. Its productions listed in this catalog are obtainable abroad on purchase. All inquiries should be addressed as above. In the United States they may also be rented from Association Films offices in Chicago, San Francisco and Dallas as well as New York.

AVIS.
Avis Films, Inc., P. O. Box 643
Burbank, California.

Avis Films, Inc., are producers of educational and instructional motion pictures released by direct sale only. All inquiries and orders should be addressed as above, except those from Canada which should be directed to A. P. Educational Film Corporation, 1834 St. Catherine Street, W., Montreal 25, P. Q.

BSLO.
Sausch & Lomb Optical Company, Film Distribution Service, 635 St. Paul Street, Rochester 2, New York.

As an educational service, Sausch & Lomb Optical Company has produced motion picture films designed to further knowledge of the science of optics. For showings in the United States, these films are available on a loan basis upon request addressed as above or to the nearest Sausch & Lomb branch office. Inquiries from outside the United States should be directed to Mr. Field Ellis, Sausch & Lomb Optical Company, Africa House, Kingsway, London W. C. 2, England.

BAILEY.
Bailey Films, Inc.; 6509 De Longpre Avenue, Hollywood 28, California.

Bailey Films, Inc., produces and distributes films of an educational and documentary nature for schools, public libraries, and other organizations. These deal with a wide variety of subjects, including physical education, social studies, science, foreign languages, English, literature and mathematics. Productions listed in this publication are obtainable for use abroad on purchase. In the United States they may also be rented. Address all inquiries as above.

BARR.
Arthur Barr Productions, 1265 Breese Avenue, Pasadena 7, California.

Arthur Barr Productions makes films for educational use, especially in the fields of social living, industry and natural history. All inquiries should be addressed as above.

BECD.
Becton, Dickinson & Company, Rutherford, New Jersey.

Becton, Dickinson & Company make medical and surgical instruments and as a feature of their work in public relations produced the film listed in this catalog to assist in the training of the athletic directors and other persons responsible for the prevention and first treatment of athletic types of injuries. The film is available on free loan in the United States. Arrangements concerning prints for display abroad may be made according to circumstances in each instance. All inquiries should be addressed as above.

BECHT.
Bechtel Corporation, 220 Bush Street, San Francisco 4, California.

Bechtel Corporation produces motion pictures for display before engineers, students of engineering and groups of persons legitimately interested in certain types of construction jobs. Prints of the Corporation's productions may be borrowed. All inquiries should be addressed as above, attention, Film Department.

BELL-AIR.
Bell Aircraft Corporation, Post Office Box One, Buffalo 5, New York.

Bell Aircraft Corporation uses motion pictures to inform the public concerning developments in aviation and to demonstrate the use to which aircraft can be put. Prints of these pictures are loaned free of charge for display in the United States and abroad. All inquiries should be addressed as above, attention Film Librarian, Photographic Department.

BENDIX.
Bendix Aviation Corporation, Scintilla Division, Sidney, New York.

The Scintilla Division of the Bendix Aviation Corporation produced the film "Theory of Operation of the Four Pole Magnet" described in this catalog for display before students of physics, electrical engineering, and other groups interested in the general field within which it lies. All inquiries concerning it should be addressed as above. Inquiries from abroad concerning the corresponding filmstrips should be addressed to the Corporation c/o Bendix International Division, 205 E. Forty-second Street, New York 17, New York.

BETH.
Bethlehem Steel Company, Bethlehem, Pennsylvania.

For the use of manufacturing and industrial companies, jobbers, dealers, technical societies, trade associations, colleges, universities, business groups and service clubs, the Bethlehem Steel Company makes films and maintains a library of motion pictures on the making and processing of steel and the use of steel in steel construction and shipbuilding industries. These pictures are available only on free loan. Domestic inquiries should be addressed to the nearest Modern Talking Picture Service Exchange. With the exception of Canada, all inquiries from abroad should be addressed to the company at Bethlehem, Pennsylvania, Attention Publications Department. Inquiries originating in Canada should be addressed to Bethlehem Steel Export Corporation, 804 Dominion Square Building, Montreal, Quebec.

BEYES.
Boston Eye Bank, 243 Charles Street, Boston, Massachusetts.

The film entitled "Eyes of Service" listed in this publication under the symbol for the Boston Eye Bank was made for public information concerning the work of the Eye Bank. The picture was produced under the direction of Dr. Garrett Sullivan, medical director of the Eye Bank, at the Massachusetts Eye & Ear Infirmary, Boston. Prints may be rented for display within the United States. Prints may also be purchased. All inquiries should be addressed as above attention Executive Secretary.

BLBS.
Better Light Better Sight Bureau, 420 Lexington Avenue, New York 17, New York.

This Bureau produces films and filmstrips as part of a program under the sponsorship of the electric and allied industries of the United States to foster a better understanding of the relationship between light and sight. Its productions are for sale. The film listed in this catalog is purchased usually by electric light and power companies for display within their respective service areas, to civic and fraternal groups and the public generally. All inquiries should be addressed as above.

Boston.
Boston University, College of Liberal Arts, 725 Commonwealth Avenue, Boston 15, Massachusetts.

Members of the Biology Department of Boston University produce Kodachrome films documenting research in peripheral circulation of the blood. High-power scenes taken through microscope show thrombus formation, vasomotion, petechial formation, drug action, etc., in transparent cheek pouch of the hamster. Prints of the motion picture productions made by Boston University listed in this publication may be borrowed for use within the United States. Prints may be purchased. All inquiries should be addressed as above, attention George P. Fulton, Professor of Biology.

BR.
Dr. Bret Ratner, 50 East Seventy-eighth Street, New York 21, New York.

The film "Allergy" listed in this catalog was produced to disseminate information concerning the phenomena of protein hypersensitivity.

The film is loaned free to physicians, hospitals, medical societies, etc., in the United States and will be made available elsewhere when possible. All inquiries should be addressed to Head Johnson & Company, Evansville 21, Indiana, attention Mr. Mead D. Johnson.

BRAY.
The Bray Studios, Inc., 729 Seventh Avenue, New York, New York.

The Bray Studios produce and sell films for use in schools, hospitals, boards of health, nursing homes, educational institutions of all kinds, industries, men and women's organizations, governmental agencies, and offer a series of approved films on aeronautics and pre-flight training, as well as films on safety, etc. Some films available in Spanish.

BSA.
Boy Scouts of America, National Council, New Brunswick, New Jersey.

This youth organization produces and uses films, filmstrips (and accompanying recordings) to explain its purposes to the public, to train leaders and to instruct members in the skills, procedures and ideals of Scouting. A Visual Aid Guide may be obtained upon request to the national headquarters now located at New Brunswick, New Jersey. All orders for the Visual Aid Guide in this Guide should be directed to the National Council, address as above.

BURKE.
Billy Burke Productions, 7416 Beverly Boulevard, Hollywood 36, California.

Billy Burke Productions makes films on medical and surgical subjects for teaching on higher levels. The films are in color, some silent with titles, some with sound, for use especially by the medical profession, and

medical schools. Address inquiries concerning Billy Burke productions to E. R. Squibb & Sons, 745 Fifth Avenue, New York 22, New York, Mr. F. S. Rollins.

CABOT.
Godfrey L. Cabot, Inc., 77 Franklin Street, Boston 10, Massachusetts.

Godfrey L. Cabot, Inc., made the film entitled "A Study in Black" listed in this publication to explain the nature, manufacture and uses of carbon black. Prints (English, French, Italian, Portuguese, Spanish) are available on free loan. Inquiries should be addressed to the agent of the corporation within the country where the inquirer is situated or to the corporation in Boston, as above.

CALTEX.
California Texas Oil Company, Ltd., 551 Fifth Avenue, New York 17, New York.
The California Texas Oil Company, Ltd. makes films of interest to farmers and agricultural groups, service station operators, engineers, and general audiences. For use abroad, in Eastern Hemisphere only, prints are obtainable by purchase or may be borrowed by special arrangement. Complete catalog of available films will be sent on request. All inquiries should be addressed as above.

Carbo.
The Carborundum Company, Niagara Falls, New York.

The Carborundum Company produces films of interest to industrial training schools, machine shop and factory management and personnel, scientists, and general audiences. All inquiries should be addressed as above.

CAS.
The Creative Art Studio, Inc., 814 W. Street, N. W., Washington 1, D. C.

The Creative Art Studio produces and distributes educational filmstrips and slides for classroom use. This material is for sale and all inquiries should be addressed as above.

Cater.
Caterpillar Tractor Co., Peoria 8, Illinois.

Caterpillar Tractor Co. produces films of interest to farm, industrial, and civic groups, to educational institutions, including technical schools, and to general audiences. Many of the films, but not all, show the operation of Caterpillar equipment. Prints are obtainable abroad by purchase. They are available on loan in the United States to approved groups. All inquiries should be addressed as above.

CB.
U. S. Department of Health, Education and Welfare, Social Security Administration, Children's Bureau, Washington 25, D. C.
The Children's Bureau cooperated with the Department of Health of the State of Virginia to produce films listed in this catalog. They are intended to inform the public of work done to assure a place in the useful citizenship of the community to children born prematurely, afflicted with rheumatic fever or crippled. Inquiries from abroad concerning these films should be addressed to Film Program Service, 1175 Avenue of the Americas, New York 19, New York. Domestic inquiries may be addressed to the nearest state or territorial health department.

CDC.
United States Department of Health, Education and Welfare, United States Public Health Service, Communicable Disease Center, 50 Seventh Street, N.E., Atlanta, Georgia.
The Communicable Disease Center, headquarters in Atlanta, Georgia, is a "task force" of the United States Public Health Service. Its mission is to experiment to develop operational procedures, materials and equipment, and to prove and demonstrate their effectiveness in prevention and control of communicable diseases. In this work the Center produces and uses films and filmstrips.

Distribution of these films and strips in foreign countries on loan or outright purchase is governed by generous regulations intended to facilitate cooperation between the Center and foreign medical, health and other government agencies. The Center will provide a three-month loan on films if the embassy in the United States representing the country making the request will transmit the film. Requests for films should be submitted through diplomatic channels. Scripts in English for most of the productions are available on request. Authorization to reproduce the Center's films and filmstrips can be extended to health and medical agencies abroad. Inquiries should be addressed to the Officer in Charge, Communicable Disease Center, 50 Seventh Street, Atlanta, Georgia.

Prints of Communicable Disease Center productions listed in this catalog marked w/f may be purchased of United World Films, Inc., 1445 Park Avenue, New York 29, New York, and correspondence concerning purchase of them should be so addressed.

CENTRI.
Centrifline Corporation, 140 Cedar Street, New York 6, New York.

Centrifline Corporation uses the film listed in this publication, entitled "The Centrifline Process", to demonstrate the centrifline process of lining underground pipes in place with cement-mortar centrifugally applied. The picture is addressed to the general public but will especially interest engineers. Prints are for sale at laboratory cost. All inquiries should be addressed as above.

Centron.

Centron Corporation, West Ninth at Avalon Road, Lawrence, Kansas.

The Centron Corporation produced the motion picture entitled "Frogs and Toads" which is designed for use in upper grades and junior high school. The film presents many unusual scenes of the life cycle of frogs and toads and included in the sound track are the distinctive calls of several species.

Inquiries from within the United States or abroad concerning this motion picture should be addressed to Young America Films, Inc., 18 East 41st Street, New York 17, New York.

Chamo.

Champion Spark Plug Company, Toledo, Ohio.

The Champion Spark Plug Company produces films of interest to vocational training schools, mechanics, and to distributors and jobbers of the company's products. Prints of these films are loaned free in the United States for display to appropriate groups. For use abroad prints may be purchased. All inquiries should be addressed as above.

CNS.

The Crippled Children's School, Jamestown, North Dakota.

The Crippled Children's School exists to provide to orthopedically handicapped children whose disability prevents them from attending public schools the education laid down by the North Dakota State Course of Study for public schools. The School also offers speech, occupational and physical therapy to those children who will benefit from them. The School uses the two films listed in this publication to keep the public informed and interested in the School. Within the United States prints are freely loaned for display to interested groups. For use outside the United States prints may be purchased. Inquiries from abroad concerning the new film, "The Twig Is Bent," should be addressed to E. L. C. Films, 4th and Marquette, Minneapolis, Minnesota.

CHU-WEX.

Churchill-Wexler Film Productions, 801 North Seward Avenue, Los Angeles 36, California.

Churchill-Wexler produce and distribute films for educational and classroom use. All inquiries should be addressed as above.

CIBA.

Ciba Pharmaceutical Products, Inc., Summit, New Jersey.

Ciba Pharmaceutical Products, Inc., makes films for educational purposes in connection with its own promotional activities. All inquiries concerning its productions should be addressed as above, attention Advertising Manager.

CIEB.

Chilean Iodine Educational Bureau, Inc., 120 Broadway, New York 5, New York.

The motion picture "Skin Antiseptics - Evaluation of Effectiveness of Some Widely Employed Antiseptics" listed in this catalog was prepared by the Chilean Iodine Educational Bureau for display before physicians, surgeons, dentists, veterinary surgeons, nurses, bacteriologists, students of those professions, and others in allied fields to show the importance of testing antiseptics by a variety of techniques to determine effective antibacterial action. The film may be obtained on loan in Canada as well as in the United States. All inquiries should be addressed as above.

CIPRA.

Cast Iron Pipe Research Association, 122 S. Michigan Avenue, Chicago 3, Illinois.

The Cast Iron Pipe Research Association produced the film listed in this catalog to acquaint students and members of civic organizations with methods of purifying water and sewage. All inquiries should be addressed as above.

Cl-Ad.

Clay-Adams, Incorporated, 181 East 25th Street, New York 10, New York.

Clay-Adams, Incorporated, produces medical films of interest to doctors, nurses, residents, internes, and medical students. The Corporation has developed and organized a collection of Kodachrome slides in teaching sets, in the fields of medicine, nursing, and the allied sciences, useful particularly in the field of medical and nursing schools, and in college and university programs. All inquiries should be addressed as above.

Clark-Wistar.

Eliot H. Clark, M.D., The Wistar Institute of Anatomy and Biology, Woodland Avenue and Thirty-sixth Street, Philadelphia 4, Pennsylvania.

On request Dr. Clark, address as above, will quote cost price on "Effects of Heat" and "Cold on the Circulation of the Blood." Prints of this subject (and others made by Dr. Clark) may be borrowed from the American Medical Association. Requests for loan of them should be addressed to the Association, attention Committee on Medical Motion Pictures, 353 North Dearborn Street, Chicago 10, Illinois.

Coast.

Coast Visual Education Company, 6620 Hollywood Boulevard, Hollywood, California.

Coast Visual Education Company's motion picture entitled "Monarch Butterfly" may be purchased within the United States or abroad. All inquiries should be addressed as above.

ColPH.
State of Colorado Department of Public Health, State Office Building, Denver 2, Colorado.

The Colorado State Department of Public Health produced the film entitled "Dental Date" to provide dental health instruction for elementary school children. All inquiries concerning it should be addressed as above, attention Public Health Education Section.

COLUM.
Columbia University, Columbia University Press, New York, New York.

All inquiries concerning Columbia University productions listed in this publication should be addressed to the Press's Center for Mass Communication, 1125 Amsterdam Avenue, New York 25, New York. Prints may be rented for display anywhere in the United States. They are also for worldwide sale. "All My Babies" may be shown only to professional audiences.

COM-BS.
United States Department of Commerce, National Bureau of Standards, Washington 25, D. C.

In cooperation with the American Dental Association's Council on Dental Research the National Bureau of Standards produced the dental films listed in this publication to disseminate to the profession and students of dentistry, the results of research into dental materials, their preparation and use. In the United States prints may be borrowed for display to appropriate groups, or purchased. All such inquiries should be addressed to the Office of Scientific Publications, National Bureau of Standards, Washington 25, D. C. Inquiries originating outside the United States should be addressed to the nearest American diplomatic mission or consular office.

COM-CA.
United States Department of Commerce, Civil Aeronautics Administration, Washington 25, D. C.

The Civil Aeronautics Administration uses motion pictures and filmstrips to meet training needs of aviation, further aviation education in educational institutions, extend public knowledge of aeronautics and related subjects, improve the efficiency and safety of aircraft operation and control, and, in short, to contribute to the creation of a well-informed air-minded nation. The Civil Aeronautics Administration has established a training film center at each of its Regional Offices. These centers are stocked with motion pictures and filmstrips prepared by the Civil Aeronautics Administration, Air Force and Navy Departments and, in addition, include films sponsored by members of the aviation industry. For appropriate use in the United States prints may be borrowed from the Regional Offices. For use abroad prints may be purchased. Inquiries concerning purchase

of productions listed in this catalog under the symbol COM-CA-WF should be addressed to United World Films, Inc., 1245 Park Avenue, New York 29, New York. Inquiries concerning "The Airborne Wagonmaster" should be addressed to the McGraw-Hill Laboratories, Inc., 1905 Fairview Avenue, N. E., Washington, D. C.

COM-PR.
United States Department of Commerce, Bureau of Public Roads, Washington 25, D. C.

The Bureau of Public Roads produces motion pictures as a means of disseminating results of its research into problems of construction and maintenance of highways. The film "Road Test One" listed in this publication is addressed to technical audiences, engineers and engineering classes at college and graduate level. All inquiries concerning it should be directed as above.

COM-WB.
United States Department of Commerce, Weather Bureau, Washington 25, D. C.

The Weather Bureau uses motion pictures to inform the public concerning clouds, weather phenomena including destructive storms, and the importance of weather on flood and forest fire conditions. Procedures for collecting information and for warning the public are shown. All inquiries should be addressed as above.

CORONET.
Coronet Instructional Films, Coronet Building, 65 E. South Water Street, Chicago 1, Illinois.

Coronet Instructional Films produce motion pictures designed for classroom teaching. A teacher's guide to class preparation accompanies each subject, with statement of the purpose of the film, evidence of the competence of the educational collaborator who helped make it, and suggestions how the picture may be used to greatest advantage. Coronet films may be rented in the United States, Hawaii, Canada, Puerto Rico, Ireland and the Philippines. Elsewhere they are obtainable on purchase only. Inquiries and orders should be addressed as above.

CRADLE.
The Cradle Society, 2049 Ridge Avenue, Evanston, Illinois.

The film "Nursing Technique" listed in this catalog was made to visualize nursery technique used at the Cradle. The picture is obtainable on loan for display within the United States. Requests to borrow should be addressed as above. The film is available abroad on sale only. All purchase orders should be addressed to Reid H. Ray Film Industries, 2269 Ford Parkway, St. Paul, Minnesota.

C.S. BECK.
Claude S. Beck, M.D., Lakeside Hospital, 2965 Adelbert Road, Cleveland 6, Ohio.

The film "Revascularization of the Heart" was made to teach physicians about the method for arterIALIZING veins of the heart which it explains. All inquiries concerning the picture should be addressed as above.

CURRF.
Curriculum Films, Incorporated, Educational Projections, Inc., Distributors, 242 South Broadway, Yonkers, New York.

Curriculum Films, Inc., produces and sells the filmstrips listed in this publication as visual aids to help teachers teach more in given time, and to assist pupils to understand, discuss and remember knowledge presented in them. Teachers' manuals included in price of strips. All inquiries should be addressed as above.

CUTL.
Cutter Laboratories, Fourth and Parker Streets, Berkeley 10, California.

As a public service to doctors, nurses, interns, medical students, and other groups of persons legitimately interested in the subjects presented, Cutter Laboratories produce and distribute motion pictures on disease and techniques of treatment and prevention. Prints may be purchased, or borrowed. All inquiries should be addressed as above, attention Motion Picture Department.

DCEStL.
Dairy Council of St. Louis, 4030 Chouteau Avenue, St. Louis, Missouri.

As part of its educational program the Dairy Council of St. Louis makes motion pictures for use in schools, clubs, etc., to disseminate information on the nutritional value of milk and the good effects of well balanced diet. Outside the St. Louis area these productions are obtainable by purchase. Within that area they may be borrowed. All inquiries should be addressed as above, attention Educational Director.

DEK.
Dekalb Agricultural Association, Inc., Dekalb, Illinois.

The Dekalb Agricultural Association, commercial producers of Dekalb seed corn, chix, makes and distributes films and filmstrips to explain the value of hybrid seed further, to illustrate how desirable qualities are obtained. Within the United States this material may be borrowed for display to appropriate groups (one week loan only). For use abroad the films and strips may be purchased. All inquiries should be addressed as above, attention Educational Division.

DG.
Davis & Geck, Inc., Surgical Film Library, 1 Casper Street, Danbury, Connecticut.

Davis & Geck, Inc., manufacturers of surgical sutures and other specialties.

produce and distribute films on surgical subjects as a service to the medical profession. The films are available on a loan basis, without charge, (with the exception of return parcel post and insurance charges) within the United States, for group showings to hospitals, medical schools and accredited medical and surgical groups. They are not intended for showing to the laity. Outside the United States, films may be requested through their agents or may be purchased on a lease basis. All inquiries should be addressed as above.

DOHO.
Doho Chemical Corporation, 100 Varick Street, New York 13, New York.

The films listed under the symbol DOHO in this publication were made under a grant for post graduate studies in oology made by Auragan, an auralgic manufactured by the Doho Chemical Corporation. Prints are loaned within the United States free of charge to physicians, study groups, university instructors, hospital staffs and accredited medical societies. Prints may also be purchased. A set of colored lantern slides on oology are also loaned gratis for suitable display. All inquiries should be addressed as above excepting those originating in Canada which may be directed to Doho Chemical Company, Ltd., Montreal, P. Q.

DOWLING.
Pat Dowling Pictures, 1056 S. Robertson Boulevard, Los Angeles 35, California.

Pat Dowling Pictures produces and distributes films and filmstrips which have been designed for use in schools in the elementary and secondary grades. For use within the United States and abroad, prints may be purchased. All inquiries should be addressed as above.

DUKE.
Duke University School of Medicine, Department of Anatomy, Durham, North Carolina.

Prints of Duke University School of Medicine pictures listed in this publication may be purchased.

All inquiries concerning purchase should be addressed, as above, attention Professor J. E. Markoe. Brochure supplied with suggestions for use of the film, inquiries concerning loans may be addressed to Miss Matilda Smith, Assistant to Educational Director National Foundation for Infantile Paralysis, 1220 Broadway, New York, New York.

DUPONT.
E. I. duPont de Nemours & Company, Inc., Wilmington 98, Delaware.

E. I. duPont de Nemours & Company make and distribute pictures to acquaint students of chemistry and of business, buyers, sales people and the public with processes used in the manufacture of their products and with the properties and qualities of these products.

The films stress the value and the nature of chemical research done by the company. Prints of the pictures may be borrowed in the United States. For use abroad prints may be purchased. All inquiries should be addressed as above.

ByReg.
The Dysentery Registry, The Bronx Hospital, 169th Street and Fulton Avenue, New York 16, New York.

The Dysentery Registry uses films in its Seven Point Program for the control of infectious diarrheas. This program is a plan for international cooperation for detecting cases of infectious diarrheas at their source; for certification of passengers and crew of ships as to presence or absence of infectious diarrheas at points of embarkation and before disembarkation; compulsory universal reporting by physicians of all infectious diarrheas; adequate sanitary supervision of transportation systems, summer camps, food and food-handlers; education of the physician and layman in isolating every case of diarrheas until cultures for specific organisms prove negative; appointment of an epidemiologist to the staff of every hospital; and the prophylactic use of type-specific vaccine and serum in bacillary dysentery.

All inquiries should be addressed as above, attention William Wolersky, M.D., M.S.P.H., Executive Secretary.

EATON.
Eaton Laboratories, Inc., Norwich, New York.

The Eaton Laboratories made the film "Skin Grafting of Extensive Burns" listed in this publication as a public service to show a modern technique regularly used at the University of Kansas Medical Center. Within the United States prints may be borrowed free of charge for display to appropriate groups. For use abroad prints may be purchased. All inquiries should be addressed as above.

EBF.
Encyclopaedia Britannica Films, Inc., 1150 Milwaukee Avenue, Wilmette, Illinois.

Encyclopaedia Britannica Films, Inc., makes sound films and filmstrips for educational use. These materials are produced in collaboration with educators who are subject matter specialists. Film guides for teachers and discussion leaders accompany all films and some filmstrips, indicating grade levels and areas for which the materials are intended (in the U.S.A.) and suggesting related activities and review. Over 200 of the sound films are available in more than 500 foreign versions comprising 15 world languages.

EBF is just completing a series of 162 motion pictures covering a basic course in high school and early college physics.

The company also distributes about 250 silent teaching films formerly known as the "Eaton Classroom Films."

Ebf Films and filmstrips are obtainable everywhere overseas on purchase. Some of EBF's distributors in over 50 countries also provide rental service. The distribution of a few subjects is limited to certain geographical areas. Requests from abroad for catalogs, inquiries and orders should be addressed as above, attention "overseas relations."

EBRF.
Edward B. Robinson Foundation Vascular Section, Medical Clinic, Hospital of the University of Pennsylvania, Philadelphia 4, Pennsylvania.

The film "Quantitative Tests used in the Diagnosis of Arterial Disease in the Peripheral Vascular Clinic of the Hospital of the University of Pennsylvania" was produced by Drs. Norman E. Freeman, Hugh Montgomery and Meyer Waide as a teaching aid. Requests for loan of prints for display in the United States should be addressed to the American Heart Association, 10 East 23rd St., New York 10, New York. All inquiries concerning the film which originate outside the United States should be addressed to Dr. Montgomery, as above.

EDISON.
Thomas A. Edison, Incorporated, Storage Battery Division, West Orange, New Jersey.

The Storage Battery Division of Thomas A. Edison, Incorporated, made the films listed under its symbol in this publication for display especially before plant electricians, batteryshop personnel, operating and production men of supervisory capacity and management men of the manufacturing, warehousing and distribution fields. "Storage Battery Power" is also suitable for display to high school students. Prints may be borrowed. Requests originating abroad should be directed to Thomas A. Edison, Inc., Export Division, 21 West Street, New York 6, New York.

Edited.
Edited Pictures System, 165 West 46th Street, New York 19, New York.
Edited Pictures System produces and sells motion pictures intended for instructional use. Arrangements can be made to accommodate schools within the United States with rentals of sound films if financial conditions preclude the possibility of immediate purchase. All television rights are controlled by Edited Pictures System. Arrangements may be made for spot exhibitions or exclusive television rights. All inquiries should be addressed as above.

ETHICON.
Ethicon, New Brunswick, New Jersey.

Ethicon made the films "Anomalies of the Site Outlets—Blood Vessels and Structures of the Common Duct" and "Injuries of the Peripheral Nerves" listed in this publication as an educational service to medical and hospital fields to familiarize them with new and established surgical techniques. Within

the United States prints may be borrowed for display to appropriate groups. For use abroad prints may be purchased. All inquiries should be addressed to Ethicon as above.

ETHYL.
Ethyl Corporation, 100 Park Avenue Building, Park Avenue at 41st Street, New York 7, New York.

As a public service the Ethyl Corporation produces and distributes films and filmstrips to explain what gasoline is, how it is produced, how used, and how research has steadily improved its quality. These productions also show how farm machinery is constructed, how operated and how it should be cared for. In the United States much of this material is obtainable on free loan, for appropriate use. For display abroad prints may be purchased. All inquiries should be addressed as above.

EyeGate.
Eye Gate House Inc., 2716 Forty First Avenue, Long Island City, 1, New York.

Eye Gate House Inc. produces full color, educational filmstrips intended for use as classroom teaching aids. Filmstrips are silent, with descriptive captions included in each frame. Scripts from which Eye Gate filmstrips are produced are prepared by a staff of practicing teachers and supervisors, who prepare as well a teachers guide, or brief manual for each filmstrip unit. The teachers manual offers many suggestions for the teacher, as well as a comprehensive bibliography. United States grade levels and subject areas are indicated. All inquiries should be addressed as above.

EYS.
Emerson Yorke Studio, 245 West 55th Street, New York 19, New York.
This studio produces motion pictures for all uses. All inquiries concerning the film "The Life Cycle of the Mosquito" should be addressed to Hoffberg Productions, Inc., 362 West 44th Street, New York 36, New York.

Faoff.
Film Associates of California, 10521 Santa Monica Boulevard, Los Angeles 25, California.

Film Associates of California produces and distributes 16mm sound films of an educational nature for schools, public libraries, and other organizations. The films deal with a wide variety of subjects and are available on purchase only. All inquiries should be addressed as above.

Film.
Film originals, 6336 Robertson Drive, Boise, Idaho.

Film originals produced the motion picture entitled "Physical Rehabilitation" to show in overview the techniques of physical therapy used at a modern

rehabilitation center. This film has television clearance and is available within the United States and abroad on outright purchase or rental. All inquiries should be addressed as above.

FORD.
Ford Motor Company, 3000 Schaefer Road, Dearborn, Michigan.

The Ford Motor Company produces motion pictures and maintains film libraries for their distribution as a public service to inform the public concerning the construction and general information on automotive manufacture; travel films of various sections throughout the United States; a series of documentary films on how various types of Americans make a living; and films of an educational nature on special educational projects sponsored by the Ford Motor Company. A full catalog is available upon request to that company. Prints of these productions are for sale. They may also be borrowed. In the United States inquiries should be addressed to the nearest Ford Film Library (location of which may be learned from Ford or Lincoln-Mercury dealers). Inquiries originating outside the United States should be addressed to the Ford Motor Company, as above, attention Motion Picture Department.

Fouke.
Fouke Fur Company, 1328 South Kingshighway, St. Louis 10, Missouri.

The Fouke Fur Company made the film "Passage to the Pribilofs" listed in this publication as a public service, to disseminate information concerning the seal fur industry. For use in the United States prints may be borrowed for display to appropriate groups. For use abroad prints may be purchased. All inquiries should be addressed as above.

Fries-Woolf.
Margaret E. Fries, M.D., 815 Park Avenue, New York 21, New York.

All inquiries concerning purchase or rental of the film "Character Neurosis with Depressive and Compulsive Trends in the Making" should be addressed to the New York University Film Library, 26 Washington Place, New York 3, New York. A user's guide accompanies each print.

FRITH.
Frith Films, 1816 North Highland, Hollywood 28, California.

Frith Films make motion pictures intended to promote understanding and tolerance in homes, communities and internationally by teaching young people to observe and judge the things that happen around them, in the hope that they will be able to adjust themselves to the world in which they will live and contribute to its well being by their understanding and ability to take responsibility. All inquiries should be addressed as above.

GAR-D.

Gardner-Denver Company,
Quincy, Illinois.

The Gardner-Denver Company produces and distributes motion pictures on heavy construction work for display in the classrooms of engineering schools, to local chapters of engineering societies, to service clubs, local chapters of contractor organizations or other groups interested in rock excavation. In the United States prints are loaned to such groups. They may be purchased for display abroad. All inquiries should be addressed as above.

Garner.

Jay M. Garner, M.D., 723 Elm Street,
Minnetka, Illinois.

Dr. Garner and Dr. J. P. Nesselrode made the picture "Sigmoid, Rectum and Anal Canal Endoscopic Views" for display to internes, gastroenterologists, surgeons, general practitioners, medical students and any other persons professionally concerned with the diseases demonstrated. In some of which diagnosis is made directly from the endoscopic findings, its display is restricted to the medical profession. In the United States prints may be rented. For use abroad they are available on purchase. All inquiries should be addressed to Dr. Garner or American Medical Association, 535 North Dearborn Street, Chicago 10, Illinois, attention committee on medical motion pictures.

GATE.

Gateway Productions, Inc., 1859 Powell St.,
San Francisco 11, California.

Gateway Productions, Inc., produces and distributes classroom and documentary films. All inquiries should be addressed as above.

GE.

The General Electric Company, Advertising
and Sales Promotion Department,
Schenectady 5, New York.

As a public service the General Electric Company produces films, filmstrips and slides intended to advance general knowledge in every field into which electricity enters. For exhibition in the United States, these materials are obtainable without charge on application to the nearest General Electric apparatus sales office. Outside the United States requests for their purchase or loan should be addressed to the nearest International General Electric distributor. In Canada, to the Canadian General Electric Company, Toronto.

Genl.

General Motors Corporation (overseas
operations), 1775 Broadway,
New York 19, New York.

General Motors Corporation produces and distributes motion pictures as a public service for the advancement of general appreciation of scientific achievement. In

the United States these productions are loaned free of charge to groups (schools, colleges, churches, and social, civic and business organizations). Domestic inquiries should be addressed to General Motors Corporation, 300 West Grand Boulevard, Detroit 2, Michigan, attention Film Distribution Section, Department of Public Relations.

Abroad, prints may be borrowed when available or purchased from General Motors plant libraries in Argentina, Australia, Belgium, Brazil, Denmark, England, Egypt, France, Germany, Mexico, New Zealand, Peru, Portugal, South Africa, Spain, Sweden, Switzerland, Uruguay, Venezuela.

GEOPHOTO.

Geophoto Services, The Ernest and Cranmer
Building, Denver 2, Colorado.

Prints of the motion picture "Photogeology - A New Look for Oil," listed in this publication are obtainable on loan within the United States only. For use abroad prints may be purchased. Requests for prints on loan should be addressed as above; purchase orders should be directed to Mr. Gil Bucknam, Arthur G. Rippey & Company, First National Bank Building, Denver, Colorado.

GlasP.

Guy Haselton Productions, 7936 Santa
Monica Boulevard, Hollywood 46, California.

Mr. Guy D. Haselton produces motion pictures on nature study. Inquiries should be addressed to the distributor, Bailey Films, Inc., 1890 Dolongore, Hollywood 38, California.

Goodyear.

Goodyear Tire & Rubber Co., Inc.,
Akron, Ohio.

The Goodyear Tire & Rubber Co., Inc., produces motion pictures for display to business and professional organizations and educational, religious, fraternal and recreational groups. Prints are for sale. In the United States prints are loaned free. For use abroad prints may be purchased. All inquiries should be addressed as above.

GW.

The George Washington University, Medical
School, 1335 H Street, Washington 5, D. C.

The film entitled "A Concept of Maternal and Neonatal Care" listed in this publication was produced through the efforts of Professor John Parks of the Department of Obstetrics and Gynecology of the George Washington University and Professor P. A. McEndon of the Department of Pediatrics of the same institution. Prints may be rented or purchased. All inquiries should be addressed to the Medical Audio-Visual Institute of the Association of American Medical Colleges, 185 North Wabash Avenue, Chicago 1, Illinois.

Hamd.

United States Department of Health,
Education, and Welfare, United States
Public Health Service, National Institute
of Health, Rocky Mountain Laboratory,
Hamilton, Montana.

For educational use the Rocky Mountain Laboratory has prepared films on subjects connected with its research work on infectious diseases. In the United States the films may be borrowed from the Rocky Mountain Laboratory. For use abroad prints may be purchased. Prints are not available for loan abroad.

Hancock.

John Hancock Mutual Life Insurance
Company, Boston, Massachusetts.

John Hancock Mutual Life Insurance Company produced the films listed under its symbol in this publication as part of its public relations program and to show the public in general what is being accomplished in modern office building and apartment house construction in the United States and to illustrate how advanced planning can improve community and family living. In the United States prints of the pictures may be borrowed for appropriate display. For use abroad they may be purchased at cost of print. All inquiries should be addressed as above, attention Manager, Photographic Bureau.

Handel.

Handel Film Corporation, 6926 Melrose
Avenue, Hollywood 38, California.

Handel Film Corporation produced for classroom use (with the technical assistance of the U.S. Atomic Energy Commission), a series of 26 motion pictures entitled "The Magic of the Atom" to illustrate the benefits of peacetime atomic energy to mankind. The series is also available for television in the United States and abroad. All inquiries should be addressed as above.

HARMON.

Harmon Foundation, Inc., 140 Nassau
Street, New York 7, New York.

The Harmon Foundation, set up in 1922 by the late William F. Harmon, began its work in the visual field in 1926, when the Religious Motion Picture Foundation was incorporated under the Foundation's Division of Social Research and Experimentation.

In the Division of Visual Experiment, the Foundation has been concerned not only with the motion picture but also with the still picture, the filmstrip, the film slide, the painting, the drawing or any other form in which man sets forth his ideas by graphic means. The Foundation's collection of these visual materials (intended to carry forward better understanding among people) is accessible to the public, the world over. In that, like the films, they may be rented or purchased. A complete catalog available on request. All

inquiries should be addressed as above,
attention Division of Visual Experiment.

HFE.

Hollywood Film Enterprises, Inc.,
6060 Sunset Boulevard, Hollywood 28,
California.

Hollywood Film Enterprises produce and distribute 8mm and 16mm black and white and color, entertainment, educational, and religious films. All inquiries should be addressed as above.

HL.

Hawley-Lord, Incorporated, 61 West
Fiftysixth Street, New York 19,
New York.

Hawley-Lord, Inc., does a wholesale business, specializing in films and filmstrips in black and white and in color, sound silent, on wild life and sports, particularly hunting and fishing. Its productions may be obtained by purchase only. Film dealers, libraries, etc., should address all communications as above.

HOLST.

Kenneth L. Holst, Audio-Visual Education
Service, 1399 North Lake Avenue,
Pasadena 6, California.

This service produces films on occasion for educational and religious purposes only. All inquiries should be addressed as above.

HPCorp.

Homemakers' Products Corporation, 380
Second Avenue, New York 10, New York.

Homemakers' Products Corporation produced the motion picture entitled "Bathing Your Baby" to instruct mothers in the handling, bathing, and caring for the skin of their babies.

Requests originating within the United States or abroad for the purchase of the motion picture should be addressed as above.

Iason.

Alfred H. Iason, M.D., 41 Eastern
Parkway, Brooklyn 33, New York.

As a public service, Dr. Iason makes prints of his motion picture productions available free of charge for appropriate display within the United States. Requests for loan of the films for use abroad will be met when possible. Prints may be purchased. All inquiries should be addressed as above.

ICAC (IAA).

International Cooperation Administration,
Institute of Inter-American Affairs, 815
Connecticut Avenue, N. W. Washington, D. C.

The motion pictures produced by the Institute in color only were made for use in the American republics, as the environment and persons depicted make plain; but they are found useful wherever else the same general social conditions prevail.

These films are available on sale only. There is no restriction on use except of four Disney cartoons, which may not be displayed in theatres. All inquiries and orders should be addressed to the Institute.

The films produced by the Institute of Inter-American Affairs rate very good to excellent for use in less-developed areas. On the whole they are simple, direct, and effective. The films are highly recommendable although the color is not up to American high standard.

ICD. Institute for the Crippled and Disabled, 400 First Avenue, New York 10, New York.

The Institute for the Crippled and Disabled, founded in 1917, is the oldest rehabilitation center in the United States. It specializes in the rehabilitation of the severely handicapped through a coordinated program which includes physical rehabilitation, vocational training, social adjustment, mental hygiene, sheltered workshop and orthopedic appliance services. All services are provided on an outpatient basis. It is professionally affiliated with Presbyterian Hospital N. Y. C. and Columbia University including the College of Physicians and Surgeons, Teachers College, and the New York School of Social Work.

Prints of the Institute's films listed in this publication are available on purchase. For showing in the United States they are available at a fee to cover handling. All inquiries may be addressed as above or those concerning use of the film abroad may be sent to the International Society for the Welfare of Cripples, 127 East 52nd Street, New York 22, New York.

ICS. Institutional Cinema Service, Inc., 165 W. 46th Street, New York, New York. Institutional Cinema Service produces films to be used in health departments, health organizations, schools, and universities for use in public health education of the lay public.

IMPCO. Imphoto, Incorporated, 1050 Boulevard, New Milford, New Jersey.

Imphoto, Inc., specializes in the production of educational films and filmstrips in the fields of land use, human relations, and family living, within the framework of experiment with new techniques of communication. All of the productions thus far completed have been experimental in nature. The maximum use of the subjects requires careful presentation on the part of the instructor. All subjects listed are available for rental within the United States and Canada. For use elsewhere abroad, prints of these motion pictures and of the filmstrips listed under the symbol IMPCO may be purchased. All inquiries should be addressed as above.

INCO. The International Nickel Company, Inc., 67 Wall Street, New York 5, New York.

The International Nickel Company has produced motion pictures to show its processes required for the reduction of ores in the production of nickel. The motion picture entitled "Mining for Nickel" is included in this edition, however, films are also available on the rolling mill practices for the production of rolled nickel and high nickel alloys. These films are made available to universities, technical societies, civic organizations. They are distributed in Canada through the International Nickel Company of Canada, Limited, 25 King Street, West, Toronto, Ontario, Canada, and in England and the Continent through the Mond Nickel Company Limited, Sunderland House, Carzon Street, London W. 1, England.

INO. Indiana University, Audio-Visual Center, Bloomington, Indiana.

Indiana University's Audio-Visual Center provides professional staff, materials, and production services to other university departments and to Indiana schools and communities. Motion pictures and other audio-visual materials are made to meet the needs for documenting and interpreting research findings and for instructional use. In the United States, the films are available on a service charge basis from Indiana University and from a number of other university lending libraries which buy prints. Prints may be purchased from the Audio-Visual Center, Indiana University, to which all inquiries from abroad should be addressed.

IndLI. Indiana Limestone Institute, Bedford, Indiana.

Indiana Limestone Institute produced the film entitled "The Nation's Building Stones" to acquaint the general public with uses and qualities of limestone, the way in which Indiana limestone is quarried by modern methods, and how it is prepared for shipment. Prints may be borrowed for appropriate display in the United States. For use abroad prints may be purchased. All inquiries should be addressed as above.

InstF. Instructional Films Inc., 1150 Wilmette Avenue, Wilmette, Illinois.

Instructional Films Inc. owns reproduction rights to, and distributes, sound films for classroom use which were made by various independent producers. These films are obtainable abroad on purchase only. Inquiries and orders from abroad should be addressed as above, attention Overseas Relations.

INTFB. International Film Bureau, Inc., 57 East Jackson Boulevard, Chicago 4, Illinois.

The International Film Bureau produces and distributes films of value to schools, universities, public libraries, medical and health societies, art and drama organizations and adult groups, particularly in fields of art, social sciences, Spanish, French, psychiatry, psychology and medicine. For use within the United States prints of some of the Bureau's productions may be borrowed from certain State departments of health. Prints of others may be rented from the Bureau or all the Bureau's productions are for sale and for use abroad must be purchased. All inquiries should be addressed as above.

INT-Geos. United States Department of the Interior, Geological Survey, Washington 25, D. C.

The motion pictures listed in this publication produced by the United States Geological Survey in collaboration with the Pan American Institute of Geography and History, are training films and available free of charge in the United States for limited circulation to technical groups and to college engineering departments for instructional purposes in connection with courses in civil engineering, photogrammetry, and cartography. All inquiries originating in the United States should be addressed as above. For use in the other American Republics prints may be borrowed. For use elsewhere abroad they may be purchased. All inquiries originating outside the United States should be addressed to the Pan American Institute of Geography and History, c/o Bureau of the Budget, Washington 25, D. C.

IntHar. International Harvester Company, 180 North Michigan Avenue, Chicago 1, Illinois.

The International Harvester Company produces films designed to advance the knowledge of better agricultural methods, soil conservation, dairying, cattle raising, forestry, road construction and maintenance, transportation and mining, through the use of international harvester products. Inquiries originating in the United States regarding the use of these films in the United States or Canada should be addressed as above.

In addition, the films are produced as sales aids to companies affiliated with international harvester and distributors of its products outside the United States and Canada, and use by others is restricted by the International Harvester Export Company, its overseas affiliate companies or representatives to meet individual requirements. Therefore, all foreign inquiries (except from Canada) should be addressed to the International Harvester affiliate company in the country of application, where no international harvester affiliate company may be contacted, inquiries should be directed to International Harvester Export Company,

Sales Promotion, 180 North Michigan Avenue, Chicago 1, Illinois.

IO. State University of Iowa, Extension Division, Bureau of Audio-Visual Instruction, Iowa City, Iowa.

Films made by the University of Iowa grow out of research projects on the campus. They are made to meet specific instructional problems encountered in teaching at the university. All are intended primarily for use in the university, but many are found helpful in other schools, in industries in adult education, in hospitals or for use in the United States. Prints may be purchased or (for use in the United States) they may be rented or leased by educational institutions or industries or other suitable groups. Certain of the medical films are restricted to use by medical schools or societies.

The sale and distribution of Rutgers Biological Instructional Motion Pictures marked IO-R have been added to the library. The production dates of these could not be learned.

All inquiries should be addressed as above.

IOSC. Iowa State College, Ames, Iowa.

Iowa State College produces films of interest to agricultural specialists, farmers, dairymen, home economics teachers and their classes, engineering students, termite control operators. The films are available for purchase abroad, and within the United States. Arrangements are made for the free loan of preview prints to prospective purchasers in the United States and abroad. All inquiries regarding purchase or preview should be directed to Film Production Unit, address as above.

Irwin-Weisler. Irwin, Weisler & Company, P. O. Box 1110, Decatur, Illinois.

Irwin, Weisler & Company made the film entitled "Toxemia of Pregnancy" (listed in this publication) as a medical and teaching service. For use within the United States, prints are loaned to responsible medical and pharmacy groups. Requests for loan to responsible individuals or organizations abroad who may be legitimately interested in the subject matter of the film will be considered according to circumstances at time of receipt. All correspondence concerning the film should be addressed as above, attention Film Librarian.

JJJ. Johnson & Johnson, New Brunswick, New Jersey.

Johnson & Johnson are manufacturers of surgical dressings, orthopedic and chiropody products, dental supplies, baby specialties, and other hospital and first-aid products. They produce motion pictures as part of an educational program designed to disseminate information to medical and nursing schools, hospitals, and other professional groups.

Their films have the approval of the various interested organizations in each field, such as the children's bureau, U. S. Department of Labor, the visiting nurse service of New York; the U. S. Public Health Service; the U. S. Bureau of Mines; the American Medical Association; and the American College of Surgeons. In the United States these films are found to qualified groups. For use outside the United States, prints may be purchased at cost, for shipment abroad, from the Princeton Film Center, Inc., Princeton, New Jersey.

Janh.
The Jan Handy Organization, 2821 East Grand Boulevard, Detroit 11, Michigan.
The Jan Handy Organization produces films and filmstrips for instructional uses at elementary and secondary classroom levels. All inquiries should be addressed as above.

JeffMed.
Jefferson Medical College, Department of Obstetrics and Gynecology, Philadelphia, Pennsylvania.

Prints of the film "The Diagnosis of Uterine Malignancies" are available at cost. Prints are loaned free of charge within the confines of the United States. Inquiries should be addressed as above, attention College Film Librarian.

JNMF.
The Jacques Mollinger Memorial Fund, 600 North Michigan Avenue, Chicago 11, Illinois.

The Jacques Mollinger Memorial Fund, established in 1945, is a corporation registered in the State of Illinois for research and education. Its purpose is to produce and distribute still and motion pictures of the ear, nose and throat and related fields. These clinical records are teaching material for medical students and residents for presentation before the medical profession. All inquiries concerning the Jacques Mollinger Memorial Fund films listed in this publication should be addressed as above.

Johnson.
Johnson Corp. Productions, 1000 E. Longfellow Avenue, Hollywood 28, California.

Johnson Corp. Productions produce and distribute motion pictures and filmstrips for use in schools and to libraries and other educational groups. Inquiries from domestic sources should be addressed as above. Inquiries from abroad should be addressed to Motion Picture Film International, 322 Wilcox Avenue, Los Angeles 25, California.

JNH.
The Johns Hopkins Hospital, Broadway and North Street, New York 16, New York.
The Johns Hopkins Hospital film department produces the motion picture

"Treatment of Erythroblastosis Fetalis by Substitution Transfusion" listed in this catalog to disseminate results of research done in its Erythroblastosis Fetalis Clinic. Prints of the picture are available at cost. The film is also loaned for display to interested groups. All inquiries should be addressed as above, attention Dr. Harry Wallerstein.

KB.
Knowledge Builders, Visual Education Center Building, Lowell Avenue and Cherry Lane, Floral Park, L. I., New York.

Knowledge Builders produce instructional films designed to aid the teacher in better classroom teaching. A teacher's guide accompanies each subject, stating the purpose of the film and suggesting how it may best be used. Knowledge Builders classroom films are also available in French and Spanish versions and are obtainable abroad on purchase only. All orders should be addressed as above.

Kelso.
Joseph W. Kelso, M.D., Medical Center, 525 N.W. 11th Street, Oklahoma City, Oklahoma.

All inquiries concerning the record film "Radical Operation for Carcinoma of the Cervix" listed in this publication should be addressed to the author, as above.

Kessler.
Kessler Institute for Rehabilitation, Pleasant Valley Way, West Orange, New Jersey.

Prints of films listed under the symbol for the Kessler Institute may be rented or purchased. All inquiries should be addressed as above.

Klacz.
Klaczberg-Clark Corporation, 919 North Michigan Avenue, Chicago 11, Illinois.

The Klaczberg-Clark Corporation distributes as a public service two educational motion pictures produced by Walt Disney Productions. These films, both included in this publication, "The Story of Penicillin" and "How to Catch a Cold", have been cleared for television (on sustaining time only). Credit lines must be included. Free supplementary literature is available for both motion pictures. Inquiries originating abroad should be addressed as above. Domestic inquiries should be directed to Association Films, Inc., 347 Madison Avenue, New York 17, New York.

Lambert.
Lorian Lambert, M.D., 768 Park Avenue, New York, New York.

Dr. Lambert made the film "Radical Surgery for Advanced Lung Cancer" to demonstrate the handling of the mediastinal extension and extension to the chest wall of cancer of the lung, illustrating the operative technique and the mechanism in cases of metastatic disease to both thoracic and abdominal

use within the United States or abroad prints may be purchased or rented. All inquiries should be addressed to Sturgis - Grant Productions, Inc., 322 East Forty-fourth Street, New York, New York.

LaRue.
Mervin W. LaRue, Inc., 159 East Chicago Avenue, Chicago 11, Illinois.

Mervin W. LaRue, Inc. specializes in the production of medical motion pictures and illustrations, for use by bona fide medical groups. All inquiries concerning films listed under the symbol LaRue should be addressed as above.

LAMP.
Los Angeles Department of Water and Power, 707 South Broadway, Los Angeles, California.

The Los Angeles City-owned Department of Water and Power distributes motion pictures it has produced (to show the importance of water and power especially to large metropolitan areas) and other films in the same general field of interest. Prints are obtainable on free loan within the area around Los Angeles. They may be purchased (subject to approval) for use elsewhere. All inquiries should be addressed as above, attention Public Relations Division.

LEX.
Lexington School for the Deaf, 904 Lexington Avenue, New York 21, New York.

Under terms of a grant from the Estate of L. T. Lester H. Hofheimer, the Lexington School for the Deaf produced the film "That the Deaf May Speak" to show the public, especially the parents of such children, how deaf children may be taught to speak and to live normal happy lives. All inquiries concerning loan of prints of this film should be addressed to Ideal Pictures Corporation, 58 East South Water Street, Chicago, Illinois. The purchase of prints (black and white or color) may be made through Campus Film Productions, 161 Remsen Street, Brooklyn, New York.

The film "Post Rubella School Child" is intended primarily for professional groups (otologists, pediatricians, psychologists, educators). It supplements a two year study of children born deaf as a result of maternal rubella (German measles) in early pregnancy. All inquiries concerning free loan of "The Post-Rubella School Child" should be addressed as above, attention Superintendent Dr. Clarence D. Connor.

L.F. BECK.
Dr. Lester F. Beck, University of Oregon, Eugene, Oregon.

Dr. Beck made the film "Human Beginnings," listed in this edition in cooperation with the public schools of Eugene, Oregon, the Walt Whitman School, New York and the Presbyterian Hospital, New York. It is intended for use in elementary school classes (kindergarten and grades 1 and 2) to promote the

emotional well-being of young children; and in college courses and adult education groups interested in child psychology, etc., etc. In the United States prints may be rented or purchased by educational film libraries. They may be purchased for use abroad. All inquiries should be addressed to Association Films, 347 Madison Avenue, New York 17, New York.

LIBFilms.
Library Films, 25 West 45th Street, New York 36, New York.

Library Films sells films for educational 16 mm. non-theatrical display, of those listed under the symbol LIBFilms-WH distribution can be made in the Western Hemisphere only (Canada excluded). All inquiries concerning subjects available should be addressed as above.

LIFE.
Life Filmstrips, 9 Rockefeller Plaza, New York 20, New York.

LIFE has produced filmstrips for use in schools, colleges, museums, libraries, and churches to make available to them material selected from the pictorial resources of LIFE Magazine. Inquiries and orders should be addressed as above.

LineEC.
The Lincoln Electric Company, 22801 St. Clair Avenue, Cleveland 17, Ohio.

The Lincoln Electric Company produces and distributes motion pictures for display before groups (agricultural, high school, shop, management and engineering levels). It plays in modern manufacturing, construction, and farming, in the United States. Prints may be purchased or borrowed free. For use abroad they must be purchased. All inquiries should be addressed as above.

McCall.
Dr. Milton L. McCall, Louisiana State University School of Medicine, Dept. of Obstetrics & Gynecology, 1582 Tulane Avenue, New Orleans, Louisiana.

The film entitled "Morton Paravascular Extraperitoneal Cesarean Operation" listed in this publication was made to advance knowledge among surgeons and prints of it may be purchased from Dr. McCall, through Film Library, Jefferson Medical College, 1025 Walnut Street, Philadelphia, Pennsylvania.

McCas-T.
Dr. Murray F. McCaslin, 550 Grant Street, Pittsburgh 19, Pennsylvania.

The film entitled "Intravenous Anesthesia with Curare in Ophthalmic Surgery" was made by Dr. Murray F. McCaslin and George J. Thomas, Department of Ophthalmology and Anesthesiology, University of Pittsburgh School of Medicine, as a public service for the advancement of knowledge. For display within the United States on professional

level, prints may be borrowed. Requests for similar loan abroad will be acted upon according to circumstances prevailing at time of receipt. Prints of the film may be purchased. All inquiries should be addressed to Dr. McCallin, as above.

McGraw-Hill.
McGraw-Hill Book Company, Inc., 330 West 42nd Street, New York 36, New York.

The McGraw-Hill Book Company sells 16mm sound films and 35mm silent filmstrips correlated with its school, college and business texts, which are available individually or in series. A complete listing is available from the company.

All inquiries originating in the United States and Canada should be addressed as above, attention Text-Film Department. Send inquiries from all other countries to McGraw-Hill International Corporation, addressed as above.

Madden.
John L. Madden, M.D., 123 East 69th Street, New York, New York.

Dr. Madden made the motion picture "Technic for Cholecystectomy - With Common Duct Exploration" for the Residency Training Program at St. Clare's Hospital. Prints of the motion picture may be purchased or borrowed within the United States or abroad. All inquiries should be addressed to E. R. Squibb & Sons, 745 Fifth Avenue, New York, New York.

Mallin's.
Mallinckrodt Chemical Works, Second and Mallinckrodt Streets, St. Louis 7, Missouri.

The Mallinckrodt Chemical Works, makers of chemicals for medicinal, photographic, analytical and industrial purposes, use motion pictures to inform the public of the careful procedures by which such products are manufactured in order to avoid detrimental variations in effects. For appropriate display within the United States, to students of medicine, pharmacy and chemistry, etc., prints of these films are loaned free of charge. Requests for the loan of prints for similar use abroad will be met when possible. All inquiries should be addressed as above.

Matt.
John G. Matt, M.D., 1106 Medical Arts Building, Tulsa, Oklahoma.

As a public service, Dr. Matt makes prints of his motion picture entitled "The Rizzoli-Stone Operation of Atrisia Ani vaginalis" available free of charge for appropriate display within the United States, with the borrower paying postage and insurance. Request for loan of the film for use abroad will be met when possible. Rights to reproduce may also be granted to qualified agencies or individuals upon request. All inquiries should be addressed as above.

MAYO.
Mayo Clinic, Clinical Laboratories, Rochester, Minnesota.

The Mayo Clinic uses films to disseminate (to physicians and medical students) the results of research done by staff members. All inquiries should be addressed as above, attention Dr. Thomas Byrd Magath.

MediCAP.
Medical Art Productions, 414 Mason Street, San Francisco 2, California.

Medical Art Productions produced and sponsored several motion pictures relating to childbirth, prenatal and postnatal care for public education. The motion pictures are available within the United States and abroad for purchase or rental. Television use is restricted to non-sponsored programs. All inquiries should be addressed as above.

Mennif.
The Menninger Foundation, 3617 West Sixth Street, Topeka, Kansas.

The Department of Research of the Menninger Foundation, which devotes itself to investigations in the field of mental health and personality development, has produced two films on infant behavior. These are of interest to psychologists, psychiatrists and those engaged in behavior observations. The films may be obtained within the United States by purchase or rental from the New York University Film Library, 26 Washington Place, New York 3, New York. Inquiries from abroad should be addressed to The Menninger Foundation, as above.

NETL.
Metropolitan Life Insurance Company, 1 Madison Avenue, New York 10, New York.
The Metropolitan Life Insurance Company uses visual material to educate the public in means to preserve health and prevent and remedy accident and disease. Its films and filmstrips are available in the United States on free loan on application addressed to the Company as above, attention Health and Welfare Division or, if nearer, to the Company at 600 Stockton Street, San Francisco 10, California. Prints of "Losing-to Win" are similarly available in Canada on application to the Company at 180 Wellington Street, Ottawa, Ontario. This production is not distributed elsewhere abroad.

MF Guild.
Medical Film Guild, Ltd., 506 West 57th Street, New York 19, New York.

The Medical Film Guild produces and distributes teaching films on medical subjects. All inquiries should be addressed as above.

MHF.
Mental Health Film Board, 166 East 38th Street, New York 16, New York.

Films in the "Emotions of Every Day Living Series" and the "Professional Educational Series", both of which are listed in this publication, were made to present problems for discussion by students of psychology, social workers, parent-teacher groups, and any others interested to know where and how psychology in action can be of help. Prints of the motion picture "The Lonely Night" are obtainable by purchase or rental for use within the United States and abroad; the motion picture is available for television use within the United States and abroad after payment of a fee to the Mental Health Film Board. Competent discussants should be present when the films are displayed.

In the United States prints may be borrowed from state or local mental health authorities or purchased from the Mental Health Film Board. Prints may also be purchased from this Bureau for use abroad.

MIAMI.
University of Miami, Box 489, Coral Gables 46, Florida.

The Radio-TV-Film Department of the University of Miami produces radio, television, and films materials of an educational and documentary nature for non-profit use. The films listed in this publication were produced in collaboration with the university's Marine Laboratory and with the aid of a grant from the National Association of Educational Broadcasters. Correspondence concerning rentals should be addressed to Educational TV-Radio Center, Ann Arbor, Michigan. Prints may be purchased from the University of Miami, address as above.

Michigan.
Michigan Department of Conservation, Division of Education, Lansing 26, Michigan.

The Michigan Department of Conservation, Division of Education, produces films relating to wildlife, and various aspects of conservation, outdoor recreation and safety. Loans outside the State of Michigan are restricted to the months of May, June, July, August and December. For use abroad the films may be purchased. Inquiries should be addressed as above.

MinNE.
The Minneapolis-Honeywell Regulator Company, Minneapolis 8, Minnesota.

The Minneapolis-Honeywell Regulator Company sponsors films useful in teaching courses in basic electricity and basic electronics. The films may be obtained on free loan, upon appropriate request, for use within the United States; they may be obtained by purchase for use abroad. All inquiries should be addressed as above, attention Non-handling Division.

Minneapolis.
Minneapolis-Woline Company, Minneapolis 1, Minnesota.

Minneapolis-Woline Company, manufacturers of modern machinery, produce and distribute educational motion pictures, especially on agricultural subjects, as a public service and the Company's contribution to general agricultural education. For display to appropriate groups in the United States prints may be borrowed and long-term deposits arranged in special cases. The Company will do what it can to extend this service abroad, reserving the right to act on each request received according to conditions bearing on it. All inquiries should be addressed as above, attention Assistant Manager of Advertising, Sales Promotion, and Public Relations.

MISS.
Mississippi State Board of Health, Jackson, Mississippi.

The Mississippi State Board of Health cooperates with other similar agencies in the southern States (U.S.A.) to produce motion pictures intended to help raise the level of public understanding especially in fields of health, agriculture and education. The Board's film "Feeling All Right" listed in this catalog is addressed to adult audiences, especially in the Mississippi River delta.

It is distributed by the Communication Materials Center, Columbia University, 413 West 117th Street, New York 27, New York. All inquiries concerning it should be so addressed.

Missouri.
Missouri Conservation Commission, Jefferson City, Missouri.

The Missouri Conservation Commission sponsors films relating to fishing, wildlife, and conservation; prints are available for free loan in Missouri, upon appropriate request. All inquiries, domestic and foreign, should be directed to the Commission, address as above.

MIT.
Massachusetts Institute of Technology, Department of Electrical Engineering, Cambridge 39, Massachusetts.

The Massachusetts Institute of Technology produces motion pictures for use as teaching tools. Its productions listed in this catalog are high-speed motion picture studies made with stroboscopic light by a method developed in the laboratories of the Institute. All inquiries concerning them should be addressed as above, attention Professor Harold E. Edgerton.

MTFF.
The March of Time Forum Films, 369 Lexington Avenue, New York 17, New York.

The March of Time Forum edition films were produced for use in schools, churches, clubs, industrial and other organizations. Their display is restricted to non-commercial showings and they may not be televised. The films are available for sale and for rent. All inquiries concerning them should be addressed to McGraw-Hill Book Company, 330 West 42nd Street, New York 18, New York.

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Inquiries concerning items entered in this edition under the symbol PSU should be addressed as above, care of the Motion Picture Studio, 112 College Avenue, attention Administration Head of the Studio.

Unique among the services rendered by the university is that of the Psychological Cinema Register (PSU-PCR). The Register is a nonprofit agency of the university. It locates instructional and documentary films in the general areas of psychology and psychiatry, publicizes these films on an international basis, and makes them available throughout the world. It confines its interest to 16 mm. motion picture films, because only these films are likely to experience wide professional and community usage.

The Register rents prints to institutions and individuals in continental United States (excepting Alaska) having legitimate use for the films; rental shipments outside the country have proved to be impractical.

For use abroad prints may be purchased. Films sold to a purchaser in a foreign country require a bank draft in payment of cost plus transportation in advance of shipment, unless the films are ordered through a governmental agency of the foreign country which is located in the United States, or unless credit is established through a recognized credit rating agency. Bank drafts must be in United States funds and drawn on a United States bank. Alternatively, purchases may be made by the presentation of UNESCO Film Coupons. Foreign shipments are made by parcel post and insured for countries where insurance is obtainable; to countries to which shipments are not insurable, shipments will be made at the buyer's risk and only on a "payment in advance" basis. Shipments will not be made through exporting firms; experience has shown the difficulties involved to be too great.

Many of the Register's films are "restricted," that is, they may be shown only to advanced classes in abnormal and clinical psychology; classes of medical students; classes of nurses in training; hospital or clinic staff meetings; and meetings of psychological, medical, or psychiatric societies.

Purchase and rental orders for such films will not be honored unless accompanied by a written statement, signed by a responsible professional person, to the effect that these films will be utilized only as intended.

All communications concerning items entered in this edition under the symbol PSU-PCR should be addressed to the Psychological Cinema Register, Audio-Visual Aids Library, The Pennsylvania State University, University Park, Pennsylvania.

PURDUE. Purdue University, Audio-Visual Center, Lafayette, Indiana.

Purdue University produces films and slides as aids to its educational program.

Each production is designed to illustrate definite points in that program. The films are rented as well as sold. Some of the films are for rent abroad as well as for sale. All inquiries should be addressed as above.

RCA. Radio Corporation of America, RCA International Division, Gloucester City, New Jersey.

To acquaint the public with the kind and the quality of equipment and appliances the Corporation manufactures, the Radio Corporation of America produces films and filmstrips, among them "Ships that See in the Night" and "The Guiding Hand," listed in this publication. All inquiries concerning them should be addressed as above.

RKO. RKO Radio Pictures, Inc., 1270 Avenue of the Americas, New York 20, New York.

RKO Radio Pictures, Inc. is engaged in the production and distribution of motion pictures for entertainment. Those of its productions which are considered suitable for educational use are made available on long term license in 16 mm. versions, after theatrical release. All inquiries should be addressed as above.

SAB. Society of American Bacteriologists, University of Pennsylvania, School of Medicine, Department of Bacteriology, Philadelphia 4, Pennsylvania. For the Society of American Bacteriologists, its Committee on Materials for Visual Instruction in Microbiology distributes pictures listed under the Society's symbol in this publication. All were made by scientists of established reputation in the field of bacteriology.

The Committee publishes lists of motion pictures reviewed under its auspices. Abstracts of these, containing information concerning their authorship, content, value and distribution, are for sale, price three cents each.

All inquiries should be addressed as above, attention Dr. Harry E. Morton.

SALT. The Carey Salt Company, Hutchinson, Kansas.

The Carey Salt Company made the motion picture "Salt Mining Operation" listed in this publication for display to engineers and management of salt mines interested in the use of modern equipment and conveyor systems for the mining and removal of salt from mines. For use in the United States prints are available free of charge. The Company will endeavor to loan prints to responsible foreign inquirers. All communications should be addressed as above, attention: Advertising Manager.

Schall. LeRoy A. Schall, 243 Charles Street, Boston, Massachusetts.

The film "We Speak Again" was made to show that the rehabilitation of the laryngectomized patient is possible. Co-sponsors of the picture are the American Cancer Society and its Massachusetts Division. Dr. Schall was technical director of the production.

In the United States prints may be rented or purchased; for use abroad they must be purchased. All inquiries should be addressed to Sturgis-Grant Productions, Inc., 314 East 45th Street, New York 17, New York.

SCHER. Schering Corporation, 60 Orange Street, Bloomfield, New Jersey.

Schering Corporation, which manufactures endocrine and pharmaceutical preparations, employs motion pictures in its program of dissemination of useful knowledge on endocrinology. Its films listed in this catalog are intended for presentation before professional groups and as aids in the instruction of students of medicine. All inquiries should be addressed as above.

Schwartz. Gilbert W. Schwartz, D.D.S., 745 Fifth Avenue, New York, New York.

Dr. Schwartz made the motion picture entitled "Construction of an acrylic jacket for use as an Abutment or an Individual Crown" to demonstrate to dentists, dental students and technicians the complete operative and laboratory procedures in the manufacture of a gold reinforced acrylic crown. Prints of the motion picture are obtainable on purchase or rental. All inquiries should be addressed as above.

Scientific Film Company, 909 East Thirty-first Street, LaGrange Park, Illinois.

The Scientific Film Company produces medical, technical and educational films. The productions of this company relating to dentistry, medicine, oral surgery, oral hygiene, medical and dental training are intended for the information and instruction of students and others concerned with these problems and procedures. The Scientific Film Company produces sponsored films in all fields of science and technology. Sound films may be prepared in foreign language versions upon request, or silent versions may be provided to purchaser desiring to read the narration. All films are available for rental or purchase within the United States. For use abroad they may be purchased. Inquiries should be addressed as above.

ScienceP. Science Pictures, Inc., 5 East 57th Street, New York 22, New York.

Science Pictures, Inc. are producers of industrial, educational and documentary motion pictures under the auspices of the National Foundation for Infantile Paralysis to teach and train doctors, nurses and medical students various phases of subjects related to polio. In the United States these films are available on loan from the National Foundation for Infantile Paralysis, 120 Broadway, New York, New York. For use abroad the films may be purchased. Inquiries should be addressed to Science Pictures, Inc., 5 East 57th Street, New York 22, New York.

Scribner's. Charles Scribner's Sons, 597 Fifth Avenue, New York 17, New York.

Charles Scribner's Sons produces filmstrips for classroom use. These filmstrips are designed to enrich and supplement existing texts. All inquiries concerning the purchase of the two filmstrips series entitled "Wonderworld of Science" (Book 7) and "Wonderworld of Science" (Book 8) described in this catalog whether within the United States or abroad should be addressed as above.

SEARLE. G. D. Searle & Co., P. O. Box 5110, Chicago 80, Illinois.

As part of their research in the service of medicine G. D. Searle & Co. maintain a library of medical motion pictures; prints are available on loan in the United States to groups of the medical and allied professions. Request for loan for use abroad will be considered on receipt. G. D. Searle & Co. rarely make gifts of their films, but under certain circumstances it might be arranged. All inquiries should be addressed as above.

SILBUR. Silver Burdett Company, Columbia Road, Park Avenue, Morristown, New Jersey.

Silver Burdett Company, textbook publishers, produced and distributed the social studies filmstrip program "Then and Now in the United States" which is listed in this publication. These strips present the country by region and each endeavors to recreate the area with which it deals, show what kind of place it is and how men in each particular environment have used available resources, met handicaps and developed the region to its present state. Each filmstrip is accompanied by a teacher's manual. All inquiries concerning the series should be addressed as above, attention: International Division.

SINCLAIR. Sinclair Refining Company, 600 Fifth Avenue, New York 20, New York.

Sinclair Refining Company sponsors films relating to various aspects of the petroleum industry, home and farm safety, and simplification of farm work. The films are intended for the information of the general public. For appropriate use within the United States

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TVA.

Tennessee Valley Authority,
Knoxville, Tennessee.

The Tennessee Valley Authority, a U. S. Government corporation created by act of Congress to develop and encourage the wise use of the resources of the Valley region, operates a system of multiple-purpose dams to prevent floods, permit dependable commercial navigation and generate electric power for the surrounding area. Large steam plants now provide additional power. A fertilizer-munitions development center at Muscle Shoals, Alabama, conducts laboratory and production research. The TVA cooperates with other agencies, both state and federal, in matters relating to agriculture, forestry and industrial development. Films and filmstrips depict these activities.

Films and filmstrips are available on purchase abroad and on free loan in the United States. All inquiries should be addressed as above.

Two-FF.

Twentieth Century-Fox Film Corporation,
500 West 56th Street, New York 19,
New York.

Prints of the pictures which constitute the series known as "The World Today," one of which "Light and Power" is listed in this catalog, may be purchased or rented for use abroad. Inquiries should be addressed as above, or to the Corporation's overseas offices, located in principal cities abroad. In Canada they may be addressed to General Films Limited, 1534 Thirteenth Avenue, Regina, Sask. The films, known also as "Our Land and People" series, are available for rental or purchase within the United States. Domestic inquiries should be addressed to Instructional Films, Incorporated, 1150 Wilmette Avenue, Wilmette, Illinois.

ULSM.

Louisville General Hospital, University of Louisville, School of Medicine, 323 East Chestnut Street, Louisville 2, Kentucky.

As a public service and for the dissemination of knowledge to surgeons and students of surgery, the School of Medicine of the University of Louisville maintains a library of motion pictures which may be purchased or, within the United States, borrowed for proper use on professional level. All inquiries should be addressed as above, attention Director of Visual Education.

UMich.

University of Michigan,
Ann Arbor, Michigan.

The Audio-Visual Education Center of the University of Michigan produces films for school use. Interest ranges is from later elementary grades to college level. Prints may be purchased or rented. All inquiries should be addressed as above.

The Department of Anatomy of the University of Michigan Medical School has produced a series of embryological films (two listed in this publication under the symbol UMich-Wed) prints of which may be purchased by educational institutions at cost from Escar Motion Picture Service, Inc., 7315 Carnegie Avenue, Cleveland, Ohio, on clearance through Dr. Bradley M. Patten, Chairman, Department of Anatomy, Medical School, Rm. 2500, East Medical Building, Ann Arbor, Michigan. Prints of "The First Heart Beats and the Beginning of the Circulation of Blood in the Embryo" may be rented from the Committee on Motion Pictures of the American Medical Association, 555 North Dearborn Street, Chicago 10, Illinois.

UMINN.

University of Minnesota, Audio-Visual
Education Service, Minneapolis 14,
Minnesota.

The University of Minnesota Audio-Visual Education Service motion picture unit prepares films, filmstrips, and television shorts for the university, state governmental units, and non-profit organizations. Its primary function is to prepare teaching aids and public relations materials. It does, however, produce a few films in the course of its activities which have national interest and are sold on an extensive basis. It also contracts with professional film companies to produce certain parts of films in which the collaborator is a University of Minnesota staff member. Brochures are available describing all productions and inquiries should be addressed to the above address.

Unittsp.

United Specialists, Inc., Quaker Hill,
Pawling, New York.

United Specialists, Inc., make films for general commercial distribution. They also make motion pictures on orders received from organizations and institutions. All inquiries should be addressed as above.

UniverPic.

Universal Pictures, 445 Park Avenue,
New York, New York.

The Universal Variety View productions listed in this publication may be purchased from United World Films, 1445 Park Avenue, New York 29, New York, to whom all inquiries concerning them should be addressed.

UofC.

University of California, University
Extension, Los Angeles 24, California.

The University of California produces and distributes motion pictures as teaching tools and as means to improve world understanding by depicting subjects about which the university is particularly well informed. All inquiries should be addressed as above, attention Educational Films Sales Department.

UofIll.

University of Illinois, Division of
Services for Crippled Children, 1105
South Sixth Street, Springfield, Illinois.

The University of Illinois produced the film entitled "Speech Training for the Handicapped Child" listed in this publication to make known the techniques which the experience of the Division of Services for Crippled Children has found effective in speech training. Prints of the film are available on loan on reasonable conditions or may be purchased. Address all inquiries as above attention Dr. Herbert R. Kobes.

UofNeb.

University of Nebraska,
Lincoln 8, Nebraska.

The University of Nebraska produces films and filmstrips of interest to agricultural groups and general audiences. For use within the United States prints may be purchased or rented; for use abroad, they may be purchased.

All inquiries should be addressed as above, attention Audio-Visual Instruction, University Extension Services.

UofOkla.

Motion picture unit, University of
Oklahoma, Norman, Oklahoma.

The Motion picture unit of the University of Oklahoma was organized in 1947 to produce 16 mm. motion pictures. All types of modern equipment are used and the personnel of the unit is made up of professional people with both a theatrical-commercial experience and a scholastic background, thus making possible a combination that brings about depths within the production program of 16 mm. films. The University's motion picture production program is a contribution to national well-being and perpetuation of the democracy of universal learning. The unit is engaged in contracts with local and national organizations (government agencies and non-profit educational entities) for major production in the educational and documentary field. Through the Educational Materials Services, Extension Division, University of Oklahoma, the unit also produces University sponsored films that are available on loan basis or direct sale. The unit's training and historical films make the university's many resources and facilities available to the general public. All inquiries may be addressed as above, attention of the Supervisor.

Productions listed in this publication under the symbol UofOkla-INTFB are distributed by the International Film Bureau, Inc., 57 East Jackson Boulevard, Chicago 4, Illinois.

Prints of those listed under the symbol UofOkla-ENS may be purchased of the Educational Materials Service, University of Oklahoma, Norman, Oklahoma.

UofPitts.

Department of Anatomy, 300 Penna. Hall,

University of Pittsburgh School of Medicine,
Pittsburgh 15, Pa.

The film on "Early Human Fetal Activity" listed in this publication was made from selected sequences from research films, for use, primarily, in Departments of Anatomy, Psychology, Neurology, and Psychiatry. For use in the United States the film may be rented from the Wistar Institute of Anatomy and Biology, Woodland Avenue and 36th Street, Philadelphia 4, Pa. for use abroad, the film is available on purchase only. All inquiries regarding purchase, either in the United States or from abroad, should be addressed as above, attention Professor Davenport Hooker.

UofWash.

The Film Center, 401 Administration
Building, University of Washington,
Seattle 5, Washington.

Carpus Studios, University of Washington, make films for educational, public relations and experimental purposes. Medical illustration, University of Washington makes films for professional and experimental medical, dental and nursing purposes. All inquiries concerning purchase or rental of prints should be addressed as above.

USA-Eng.

Office of the Chief of the Engineers,
(Engl.) Department of the Army,
Washington 25, D.C.

The motion pictures listed in this publication under the symbol designating the Corps of Engineers, United States Army, pertain to typical operations of the Corps, short deal with flood control, navigation, works and related subjects; several illustrate typical military construction activities of an unclassified nature. The films were produced for record and educational purposes only and may not be used commercially. The sound films and one of two of the silent, have been cleared for television. Prints are available on loan for short periods to governmental agencies, civic, educational and cultural groups, institutions within the United States. All domestic inquiries should be addressed as above with request that they be forwarded to the appropriate district engineer's office. For use abroad loan may be requested through the military attaché of the United States diplomatic mission nearest to the inquirer.

USAF.

U.S. Air Force, Pictorial Branch, Office
of Public Information, Office of the
Secretary of Defense, Washington 25, D.C.

Department of the Air Force training films and public information films are available on a free loan basis for public non-profit exhibition within the United States. Prints may be obtained from the Department of the Service, Requests for these films should be addressed as above. Requests will be considered on

individual merits. Requests originating abroad should be made to the Public Affairs Officer in care of the nearest United States Embassy. Inquiries concerning purchase of those marked USAF-UWF should be addressed to United World Films, Inc., 1445 Park Avenue, New York 29, New York.

USArmy.
U.S. Department of the Army, Pictorial Branch, Office of Public Information, Office of the Secretary of Defense, Washington 25, D.C.

Department of the Army training films, filmstrips and public information films are available on a free loan basis for public non-profit exhibition within the United States. Prints may be obtained from Army Area Headquarters. Loan is dependent upon the requirements of the Service. Requests originating within the United States for use of these films abroad should be addressed as above. Requests will be considered on individual merits. Requests originating abroad should be directed to the Public Affairs Officer in care of the nearest United States Embassy. Inquiries concerning purchase of those films or filmstrips marked USArmy-UWF should be addressed to United World Films, Inc., 1445 Park Avenue, New York 29, New York.

USArmy-P.
Armed Forces Institute of Pathology, Walter Reed Army Medical Center, 6825 16th Street, N.W., Washington 25, D.C.

The United States Army medical films and filmstrips listed in this publication were produced for the instruction and training of Department of Defense personnel. While all have, therefore, a military background, those listed will nevertheless prove of interest and use to non-military, medical, professional and allied scientific groups. Prints of these productions may be borrowed by any member of the medical profession or allied scientific groups. Requests for loan originating in the United States should be addressed to the Commanding General of the Army Area in which the requestor resides, attention: Surgeon. Requests originating abroad should be directed to the Army Attaché in the American Legation in the country wherein the requestor resides. Inquiries concerning purchase of those films or filmstrips marked USArmy-P-UWF should be addressed to United World Films, Inc., 1445 Park Avenue, New York 29, New York.

USDA.
United States Department of Agriculture, Motion Picture Service, Office of Information, Washington 25, D.C.

The United States Department of Agriculture produces motion pictures and filmstrips, informational and instructional in type. They are designed to aid in disseminating information on agricultural products, their production, distribution, and utilization; to demonstrate improved methods in agriculture and home economics; to stress the need for

conservation of soil and other resources, explain the farm credit system, forestry, land use, marketing, and kindred subjects, and to help increase the effectiveness of cooperative extension work.

These materials are for sale. Their exhibition is subject to published restrictions which effect all U.S. Government-made films.

The motion picture "Better Seeds for the Better Grasslands" is available outside the United States only with addition of magnetic sound track. Prints of other films may be purchased with addition of magnetic strip to facilitate translation into language versions.

Inquiries and orders for 16 mm. films should be addressed to United World Films, Inc., 1445 Park Avenue, New York 29, New York.

In the United States these films may also be borrowed (small service and transportation charges) from libraries located throughout the country.

All correspondence concerning 16 mm. motion pictures should be addressed directly to the Department of Agriculture, as above.

Correspondence concerning filmstrips should be directed to Photo Lab, Inc., 3825 Georgia Avenue, N.W., Washington, D.C.

USIA.
United States Information Agency, Washington 25, D.C.

Since August 1953, the United States Information Agency has conducted the overseas information service formerly conducted by the United States Department of State. Films used in the information program are listed in this catalog, and prints of these films and others, may in the local language, are available abroad on loan through the United States Information Service. Inquiries concerning the films should be addressed to the nearest United States diplomatic or consular office, attention U.S.I.S. Some of the titles may not be available at all United States Information Service offices.

USIndS.
United States Department of the Interior, Bureau of Indian Affairs, Washington 25, D.C.

The United States Indian Bureau has made a limited number of motion pictures and they may be purchased at cost, for use in schools, libraries and other educational institutions, to inform those interested in condition of Indians in the United States today and in governmental policies for their advancement. Most of these films are intended primarily for the instruction, guidance and encouragement of the Indians themselves. The films were made on Indian reservations and Indians move through them as they do over those reservations in fact (without glamorizing). All inquiries should be addressed to Audio Visual Unit, c/o Intermountain School, Brigham City, Utah.

USInt.-F&WS.
United States Department of the Interior, Fish and Wildlife Service, Washington 25, D.C.

To inform the public concerning Government measures taken to preserve wildlife and also to promote the use of fish by the general public and by institutions, the Fish and Wildlife Service produces and distributes educational motion pictures, some of which are designed to show what the wildlife resources of the United States are and why they should be conserved; other productions provide consumer education material concerning the commercial fishing industry and industries allied to commercial fisheries. Motion pictures are also produced for the particular use of industry personnel (fishermen, wholesalers and retailers) to improve techniques utilized within the industry.

Prints may be had on loan, free of charge, and information concerning sale of prints, television rights, long term loan and policy for cooperation with industry in production of motion pictures may be obtained by writing to Section of Visual Information, Fish & Wildlife Service, Box 128, College Park, Maryland.

USNavy.
U.S. Department of the Navy, Pictorial Branch, Office of Public Information, Office of the Secretary of Defense, Washington 25, D.C.

Department of the Navy training films, filmstrips and public information films are available on a free loan basis for public non-profit exhibition within the United States. Prints may be obtained from Naval District Headquarters. Loan is dependent upon the requirements of the Service. Requests originating within the United States for use of these films abroad should be addressed as above, and will be considered on individual merits. Requests from abroad should be directed to the Public Affairs Officer in care of the nearest United States Embassy. Prints of U.S. Navy films released for sale may be purchased from United World Films, Inc., 1445 Park Avenue, New York 29, New York. Inquiries concerning purchase of those marked U.S. Navy-UWF should be so addressed.

USoCal.
University of Southern California, Audio Visual Services, Department of Cinema, University Park, Los Angeles 7, California.

The Department of Cinema of the University of Southern California was formed in 1928 with the cooperation of the Academy of Motion Picture Arts and Sciences and continues to draw upon Hollywood's personnel, lines to augment its education staff. The Department of Cinema produces films in three basic areas: (1) Films for class projects within the Department of Cinema; (2) educational and documentary films for

class room use; (3) specialized films normally outside the interest of commercial producers.

For use in the United States prints made by the University of Southern California may be purchased or rented; for use abroad they may be purchased. All inquiries, including requests for television rights, should be addressed as above.

USPHS.
United States Department of Health, Education and Welfare, United States Public Health Service, Washington 25, D.C.

The United States Public Health Service produces films and filmstrips for professional groups to demonstrate health techniques and aids in technical training; it produces films for the general public to help promote local public health programs and to impart information about the prevention of diseases and the preservation of health. The film program of the Service can be divided into three phases: the production of technical training films and filmstrips through its communicable disease center (see CDC); the direct sponsorship of films on the preservation of health and the prevention of disease; and the joint sponsorship of, or participation in, the making of films with other groups or organizations (for example, see ACS). The appearance of the seal of the Public Health Service in the title of a film means that the Service has been consulted during the production of the film product.

In the United States, USPHS films may be borrowed through local departments of health. Abroad, requests for loan of USPHS subjects should be addressed to the Public Affairs Officer, in care of the American diplomatic mission or consular office nearest the applicant. Purchase of most USPHS films can be made through United World Films, Inc., 1445 Park Avenue, New York 29, New York. A few films require authorization forms, available from the Public Inquiries Branch, U.S. Public Health Service, Washington, D.C. Information concerning any USPHS film may be obtained by writing to the same address.

UWF.
United World Films, Inc., 1445 Park Avenue, New York 29, New York, produces motion pictures and filmstrips for entertainment and religious uses as well as for general instructional and teaching purposes. For display in films may be purchased or rented from rental libraries.

United World Films is the official distributor (on sale only) of United States Government films and filmstrips which have been released for public display.

UWF films may be used on television without advance approval in writing, whether obtained by purchase, lease or rental. United States Government films and UWF sponsored films must be checked for clearance.

UWIS.
The University of Wisconsin, University Extension Division, Bureau of Audio-Visual Instruction, 1312 West Johnson Street, Madison 6, Wisconsin.

The Bureau of Audio-Visual Instruction exists within the framework of the Extension Division of the University of Wisconsin to fulfill many functions with respect to the selection, use and production of audio-visual materials for Wisconsin schools and communities. The purpose is to produce films which effect a wide public service insofar as the welfare of the state of Wisconsin is concerned. These films are available on a handling charge or they may be purchased at cost plus minimum fee for handling. All inquiries should be addressed to the Bureau.

VaDep.E.
Virginia State Board of Education, Richmond 16, Virginia.

The Film Production Service of the Virginia State Board of Education produces motion pictures to present the natural beauties, history, resources, and agricultural and industrial development of the State. It has also produced films on safety and education. These pictures may be rented within the United States or purchased for display in this country and abroad. All inquiries should be addressed to the Film Production Service.

VARICK.
Varick Pharmacal Company, Incorporated, 75 Varick Street, New York 13, New York.

As a service to the medical profession, the Varick Pharmacal Company made the film "Management of the Failing Heart" listed under its symbol in this publication, made under normal nursery school conditions, they document important problems of growing up and learning to fit into a family, a school, a community. They also demonstrate experimental clinical techniques. The films are designed for psychologists, education students, teachers, leaders of child-care centers, and others concerned with the wholesome development of young children. Within the United States prints may be rented for use in colleges or elsewhere when competent discussion leadership is assured. They may be purchased for similar use abroad. All inquiries concerning the films, and a publication entitled

Vassar.
Vassar College, Poughkeepsie, New York.

The Department of Child Study at Vassar College has made a series of motion pictures on personality growth, three of which are listed in this publication, made under normal nursery school conditions, they document important problems of growing up and learning to fit into a family, a school, a community. They also demonstrate experimental clinical techniques. The films are designed for psychologists, education students, teachers, leaders of child-care centers, and others concerned with the wholesome development of young children. Within the United States prints may be rented for use in colleges or elsewhere when competent discussion leadership is assured. They may be purchased for similar use abroad. All inquiries concerning the films, and a publication entitled

"Explanatory notes on the Series" by Dr. Mary S. Fisher (Langmuir) and Dr. Lawrence Joseph Stone, should be addressed to New York University Film Library, 26 Washington Place, New York 3, New York.

VETS.
Veterans' Administration, Vermont Avenue and H Street, Washington 25, D.C.

The Veterans' Administration, Department of Medicine and Surgery, makes films and filmstrips for the training of its staff and to disseminate the results of their experience to individuals and organizations which can profitably use the material. The Administration's subjects listed VETS-QUI-MEX may be purchased from Churchill-Wexler Film Productions, 801 North Seward Street, Los Angeles 38, California. Those subjects listed VETS-WVF are available from United World Films, Inc., 1445 Park Avenue, New York 29, New York. Within the United States Veterans' Administration films are loaned to legitimately interested persons and groups, on application to central office Film Library, Veterans Administration, Washington 25, D.C. Abroad inquiries may be made of the Public Affairs Officer in care of the nearest United States diplomatic mission or consular office.

Wayne.
Wayne University, College of Education, Detroit 1, Michigan.

Most of the films and filmstrips produced by the College of Education, Wayne University, listed in this publication are intended for use with in-service and pre-service teachers, and with parents. The majority of releases deal with instructional methods. Some productions, however, are for classroom use with youngsters. Prints are for sale. All inquiries should be addressed as above, attention Audio-Visual Materials Consultation Bureau.

Weeter.
John F. Weeter, M.D., 1206 Meyburn Building, Louisville 2, Kentucky.

Dr. Weeter made the film "The Open Method of Burn Therapy" to illustrate that technique, its advantages and contraindications. "The Open Method of Burn Therapy" shows examples of various types of burns, and the methods needed for grafting and rehabilitation.

Prints of the motion picture are available on free loan to members of the medical and nursing professions. All inquiries should be addressed to the Eaton Laboratories, Norwich, New York.

Westh.
Westinghouse Electric Corporation, 3 Gateway Center, P.O. Box 2278, Pittsburgh 30, Pennsylvania.

The Westinghouse Electric Corporation produces and distributes motion pictures and

filmstrips to disseminate general information on developments in the field of electricity. The Corporation also makes and distributes other films and strips intended to promote its own products, while these are not lacking in general interest they are not included in this catalog. All inquiries should be addressed as above, attention Film Library.

Win-Sta.
Winthrop-Stearns Inc., 1450 Broadway, New York 18, New York.

The motion picture "Regional Analgesia" listed in this publication was made to illustrate the high degree of proficiency that has been attained by the modern anesthetologist in executing the various block techniques. For showing within the United States to medical groups, at medical meetings, hospital staff meetings, etc., prints may be borrowed free of charge. Requests made by responsible entities, for similar loan for showing abroad to appropriate groups, will be considered on their individual merits and circumstances prevailing at the time of receipt. All communications should be addressed as above.

WISTAR.
The Wistar Institute, 36th Street and Woodland Avenue, Philadelphia 4, Pennsylvania.

The Wistar Institute uses motion pictures to disseminate scientific knowledge and demonstrate scientific skill. All inquiries concerning the Institute's films should be addressed as above.

Woolsey.
Dr. Robert Dean Woolsey, 6944 Chipewa, St. Louis 9, Missouri.

Dr. Woolsey made the film "Trigeminal Neuralgia" to demonstrate his technique of this operation for the benefit of surgeons and students of surgery. Prints are obtainable on free loan for appropriate display only. Requests from abroad will be met if possible. All inquiries should be addressed as above.

WYETH.
Wyeth, Incorporated, 1401 Walnut Street, Philadelphia 2, Pennsylvania.

As a service to physicians, Wyeth, Incorporated, manufacturers of pharmaceutical, biological, and nutritional products, produces films relating to subjects within the organization's fields of research. These films are of interest to members of the medical profession. Prints are obtainable on loan for use within the United States or abroad, upon appropriate request. Prints are not for sale. All inquiries should be addressed as above.

YAF.
Young America Films, Inc., 18 East 41st Street, New York 17, New York.

This corporation makes films and filmstrips for specific curriculum purposes and school use. They are made in consultation with curriculum specialists and expert teachers who check and evaluate to insure accuracy and teaching effectiveness. Teacher's Guides are available. The corporation's productions are for sale. All inquiries concerning use in U.S.A. and Canada should be addressed as above, also inquiries concerning foreign distribution of filmstrips. Except Canada, foreign distribution of YAF 16 mm. films is handled by Loew's International Corporation 1540 Broadway, New York 19, New York.

ZurAm.
Zurich-American Insurance Companies, 135 South LaSalle Street, Chicago 3, Illinois.

As a part of the Safety Zone Program, a service to their workmen's compensation risks, the Zurich-American Insurance Companies have produced a number of sound slidefilms on health and safety subjects. Inquiries originating in the United States may be addressed to local Zurich-American agents. Those originating where there is no local agent, and abroad, should be addressed as above. Requests from abroad can be honored only if the individual or company has a representative in the United States who will arrange for overseas shipment.

UNESCO COUPONS

Individuals and institutions abroad desiring to purchase films, filmstrips, or projection equipment, but encountering currency difficulties, may wish to investigate the possibilities of using UNESCO International Coupons. Inquiries should be directed to the distributing body for UNESCO Coupons in the country in which the request originates, or to UNESCO Coupon Office, 19 Avenue Kleber, Paris, France.